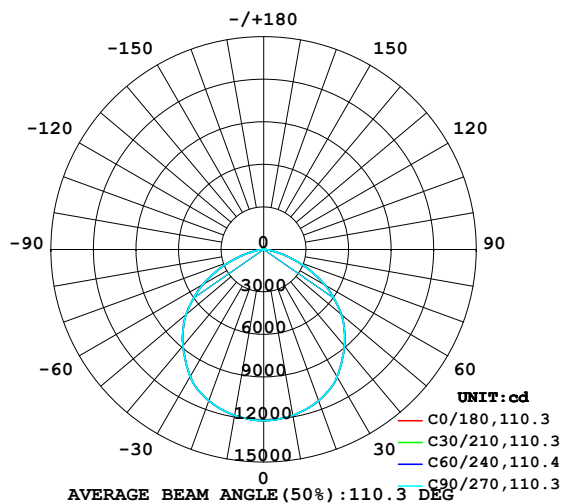


## LUMINAIRE PHOTOMETRIC TEST REPORT

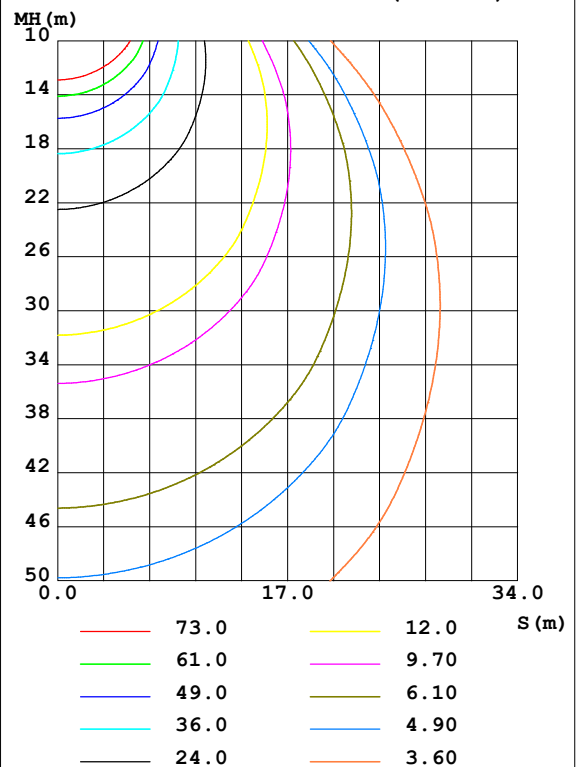
Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 181.98 lm/W			
MODEL		I <sub>max</sub> (cd)	12070	S/MH (C0/180)	1.27
NOMINAL POWER(W)	180	LOR(%)	100.0	S/MH (C90/270)	1.27
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	32818	η UP,DN(C0-180)	0.5,49.5
NOMINAL FLUX(lm)	32817.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.5
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down (%)	99.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1188	1188	1188	1188	1188	1188	1188	1188	0- 10	1142	1142	3.48, 3.48
20	1135	1135	1135	1135	1135	1135	1135	1135	10- 20	3292	4435	13.5, 13.5
30	1037	1037	1037	1037	1037	1037	1037	1037	20- 30	5040	9475	28.9, 28.9
40	887.5	887.0	887.0	887.0	887.5	887.0	887.0	887.0	30- 40	6024	15499	47.2, 47.2
50	716.1	716.7	716.5	716.7	716.1	716.7	716.5	716.7	40- 50	6217	21716	66.2, 66.2
60	497.2	497.3	496.7	497.3	497.2	497.3	496.7	497.3	50- 60	5429	27145	82.7, 82.7
70	253.2	252.5	252.3	252.5	253.2	252.5	252.3	252.5	60- 70	3705	30850	94.94
80	51.28	50.91	50.98	50.91	51.28	50.91	50.98	50.91	70- 80	1506	32356	98.6, 98.6
90	1.238	1.240	1.237	1.240	1.238	1.240	1.237	1.240	80- 90	149.3	32506	99.99
100	2.140	2.141	2.138	2.141	2.140	2.141	2.138	2.141	90-100	18.05	32524	99.1, 99.1
110	3.350	3.352	3.349	3.352	3.350	3.352	3.349	3.352	100-110	28.81	32553	99.2, 99.2
120	4.645	4.641	4.638	4.641	4.645	4.641	4.638	4.641	110-120	39.59	32592	99.3, 99.3
130	5.911	5.921	5.918	5.921	5.911	5.921	5.918	5.921	120-130	47.22	32639	99.5, 99.5
140	7.189	7.177	7.179	7.177	7.189	7.177	7.179	7.177	130-140	50.64	32690	99.6, 99.6
150	8.397	8.384	8.394	8.384	8.397	8.384	8.394	8.384	140-150	48.83	32739	99.8, 99.8
160	9.415	9.388	9.391	9.388	9.415	9.388	9.391	9.388	150-160	41.07	32780	99.9, 99.9
170	10.22	10.19	10.19	10.19	10.22	10.19	10.19	10.19	160-170	27.70	32808	100, 100
180	10.58	10.54	10.53	10.54	10.58	10.54	10.53	10.54	170-180	9.884	32818	100, 100
DEG	LUMINOUS INTENSITY: *10cd									UNIT: lm		

Conical surface Flux(90deg): 18636 lm

%lum = 56.8%

%lamp = 56.8%

Conical surface Flux(120deg): 27145 lm

%lum = 82.7%

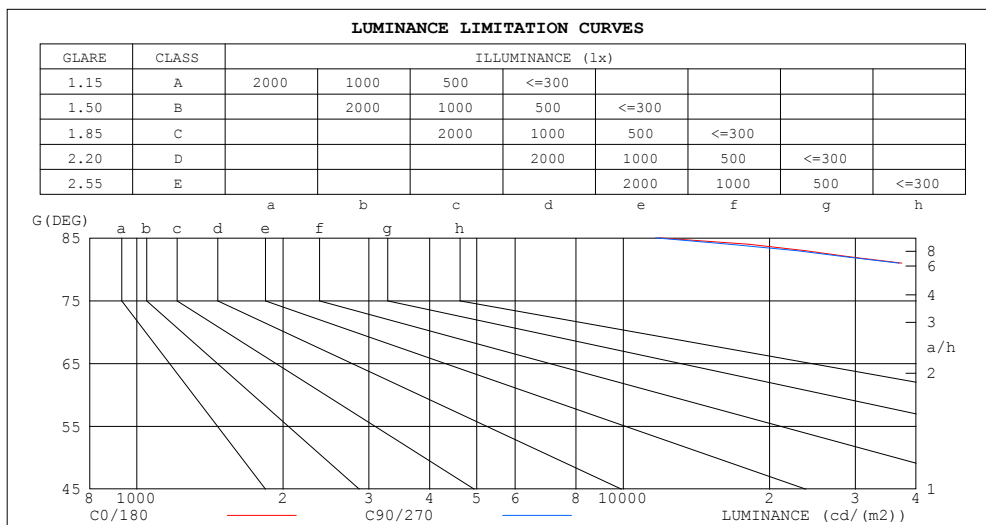
%lamp = 82.7%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11854	11670
80	45019	44449
75	81724	81066
70	112867	111687
65	135447	134209
60	151616	150410
55	161328	160093
50	169848	168755
45	174009	172691

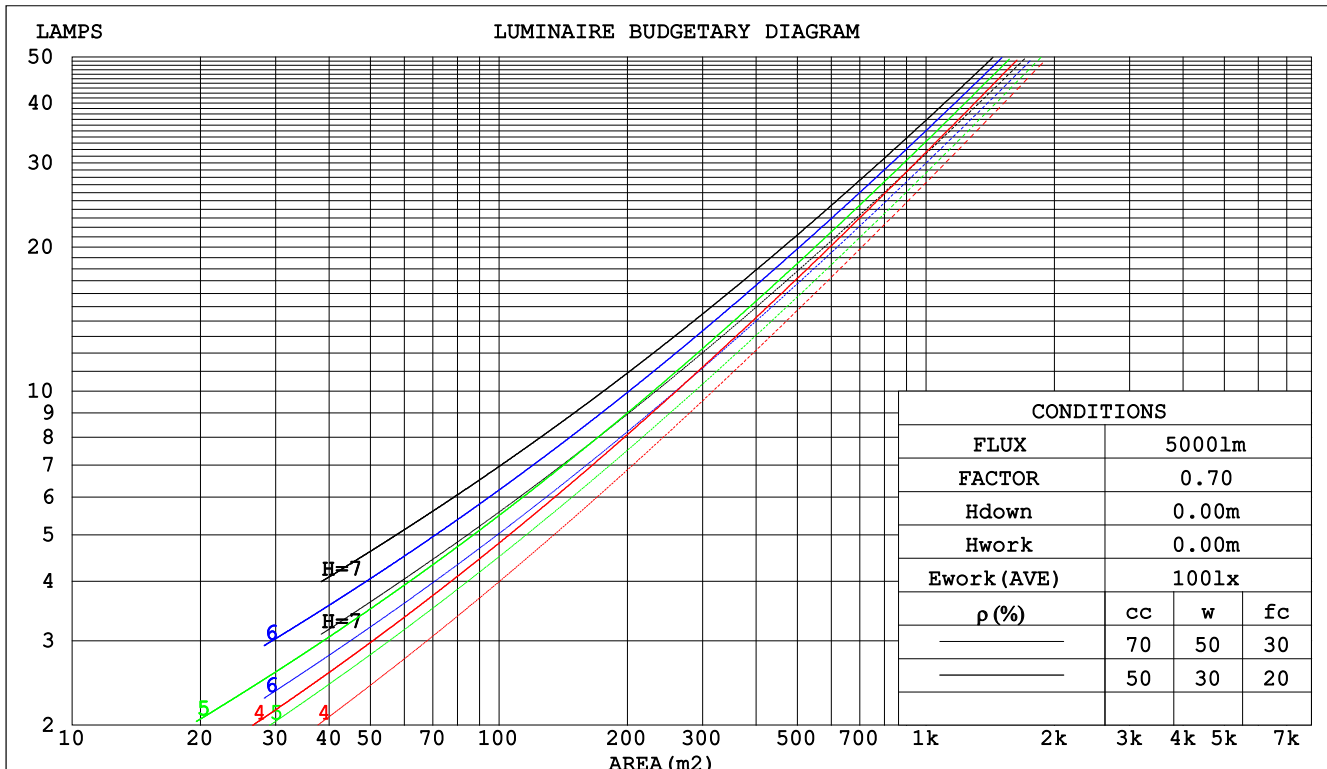
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.05	1.01	.98	1.03	.99	.96	.98	.96	.93	.94	.92	.90	.91	.89	.87	.85
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.83	.79	.76	.80	.77	.74	.72
3.0	.81	.74	.67	.80	.73	.67	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.65	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.43	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

# WEC AND CCEC

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.281	.160	.051	.273	.156	.050	.260	.149	.048	.247	.143	.046	.236	.137	.044		
2.0	.272	.149	.046	.265	.146	.045	.253	.141	.044	.242	.136	.043	.232	.131	.041		
3.0	.256	.136	.041	.250	.134	.040	.239	.130	.039	.230	.126	.039	.220	.122	.038		
4.0	.239	.124	.036	.234	.122	.036	.224	.119	.035	.215	.116	.035	.207	.113	.034		
5.0	.222	.113	.033	.218	.112	.033	.209	.109	.032	.202	.106	.032	.194	.104	.031		
6.0	.207	.104	.030	.203	.103	.030	.196	.100	.029	.189	.098	.029	.182	.096	.028		
7.0	.194	.096	.027	.190	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026		
8.0	.182	.089	.025	.178	.088	.025	.172	.086	.025	.167	.084	.024	.161	.083	.024		
9.0	.171	.083	.023	.168	.082	.023	.162	.080	.023	.157	.079	.023	.152	.077	.022		
10.0	.161	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.144	.073	.021		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.198	.198	.198	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.186	.164	.144	.159	.140	.124	.109	.097	.086	.063	.056	.050	.020	.018	.016	
2.0	.177	.139	.108	.152	.120	.093	.104	.083	.065	.060	.048	.038	.019	.016	.012	
3.0	.169	.122	.084	.145	.105	.073	.100	.073	.051	.057	.043	.030	.018	.014	.010	
4.0	.162	.108	.067	.139	.093	.058	.095	.065	.041	.055	.038	.024	.018	.012	.008	
5.0	.154	.098	.056	.133	.085	.049	.091	.059	.034	.053	.035	.020	.017	.011	.007	
6.0	.148	.089	.048	.127	.077	.041	.088	.054	.029	.051	.032	.017	.016	.010	.006	
7.0	.141	.082	.041	.121	.071	.036	.084	.050	.026	.049	.030	.015	.016	.010	.005	
8.0	.135	.077	.037	.116	.066	.032	.080	.047	.023	.047	.028	.014	.015	.009	.004	
9.0	.129	.072	.033	.111	.062	.029	.077	.044	.021	.045	.026	.012	.015	.008	.004	
10.0	.123	.067	.030	.106	.059	.026	.074	.041	.019	.043	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm											
NAME: H03DGC-18-R380-BO-40G-R7						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: ERVAN						SUR.:		Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H		18.4	19.8	18.7	20.1	20.3	18.4	19.8	18.6	20.0	20.3
	3H	19.5	20.8	19.8	21.1	21.3	19.5	20.8	19.8	21.0	21.3
	4H	19.7	21.0	20.1	21.3	21.6	19.7	21.0	20.0	21.3	21.5
	6H	19.8	21.0	20.1	21.3	21.6	19.8	21.0	20.1	21.3	21.5
	8H	19.8	20.9	20.1	21.2	21.5	19.7	20.9	20.1	21.2	21.5
	12H	19.7	20.8	20.1	21.1	21.4	19.7	20.8	20.1	21.1	21.4
4H	2H	18.9	20.1	19.2	20.4	20.7	18.9	20.1	19.2	20.4	20.7
	3H	20.1	21.2	20.5	21.5	21.8	20.1	21.2	20.5	21.5	21.8
	4H	20.4	21.4	20.8	21.8	22.1	20.4	21.4	20.8	21.8	22.1
	6H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.2
	8H	20.5	21.3	20.9	21.7	22.1	20.5	21.3	20.9	21.7	22.1
	12H	20.5	21.2	20.9	21.6	22.1	20.5	21.2	20.9	21.6	22.0
8H	4H	20.5	21.3	20.9	21.7	22.1	20.5	21.3	20.9	21.7	22.1
	6H	20.7	21.3	21.1	21.8	22.2	20.6	21.3	21.1	21.7	22.2
	8H	20.7	21.2	21.1	21.7	22.2	20.6	21.2	21.1	21.7	22.1
	12H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
12H	4H	20.5	21.2	20.9	21.6	22.1	20.5	21.2	20.9	21.6	22.0
	6H	20.6	21.2	21.1	21.7	22.1	20.6	21.2	21.1	21.7	22.1
	8H	20.6	21.1	21.1	21.6	22.1	20.6	21.1	21.1	21.6	22.1
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5					
2.0H	+ 0.4 / - 0.4					+ 0.4 / - 0.4					

CIE Pub.117, 32818 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 12.1)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

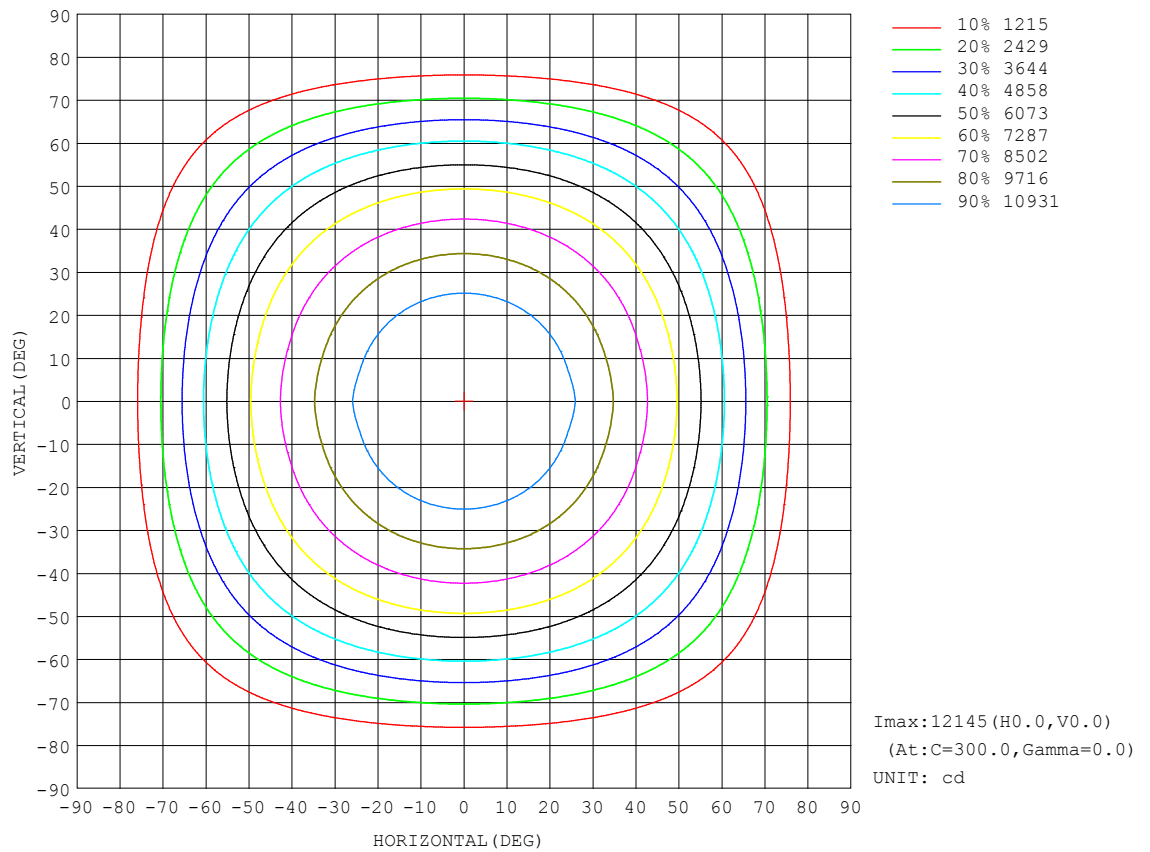
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	41	58	47	40	57	47	40	34
0.80	69	58	51	68	57	50	66	56	50	43
1.00	78	67	60	76	66	60	74	68	59	52
1.25	85	75	68	83	74	68	81	73	67	60
1.50	90	80	74	88	80	73	85	78	72	65
2.00	97	89	83	95	87	82	91	85	80	72
2.50	100	93	87	98	92	86	94	89	84	76
3.00	103	97	92	101	96	91	97	93	89	80
4.00	107	102	98	105	100	96	101	97	94	85
5.00	109	105	101	107	103	100	102	99	97	87
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



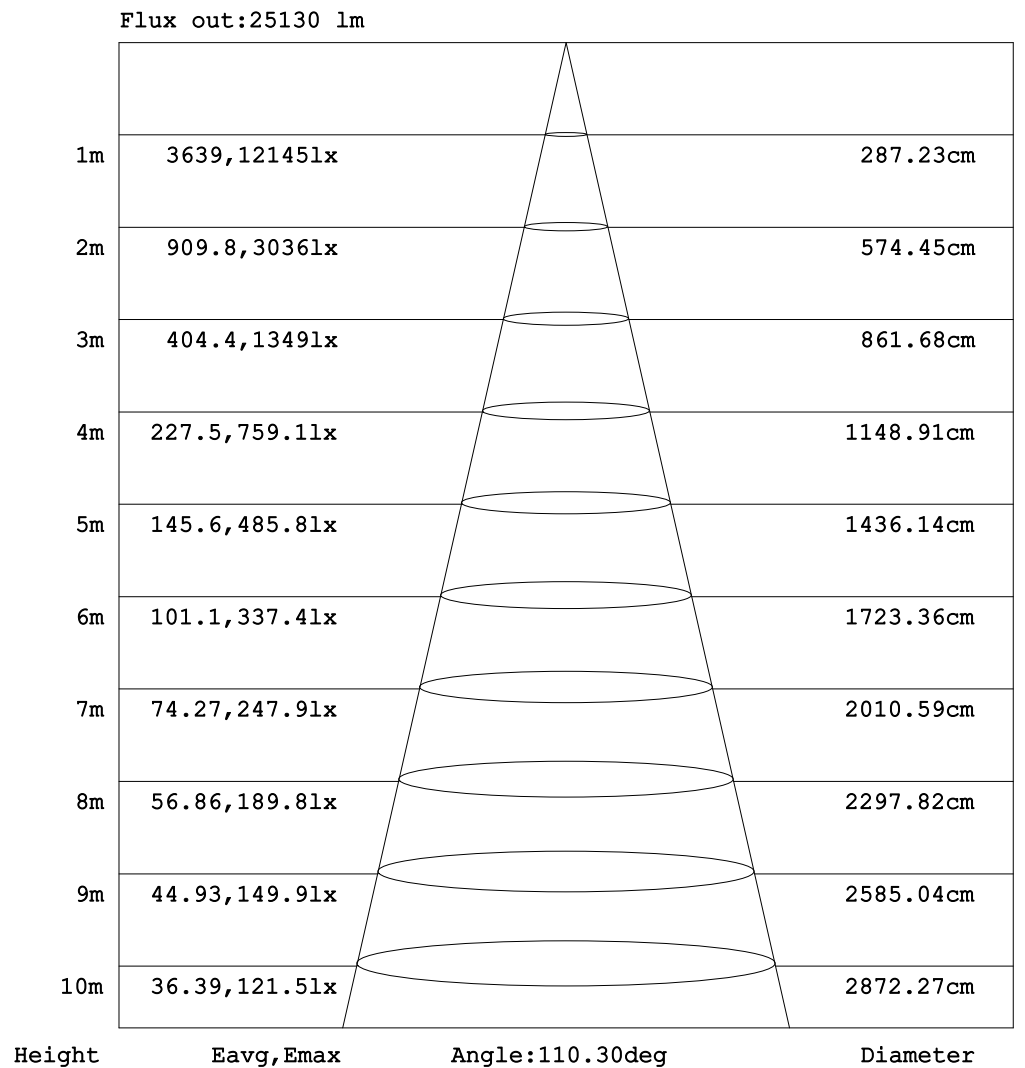
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-08

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:53.0%  
Test Distance:10.380m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



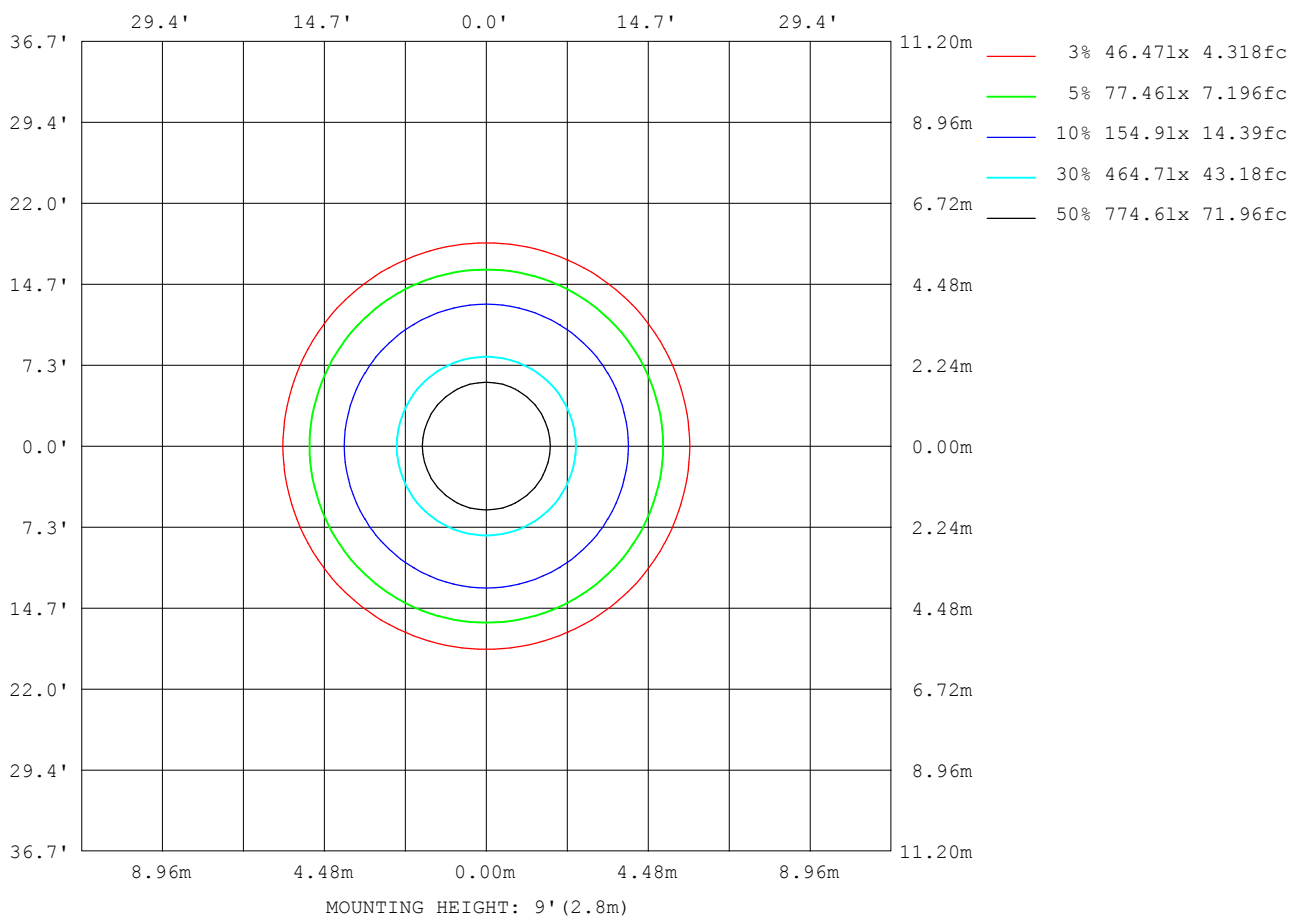
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

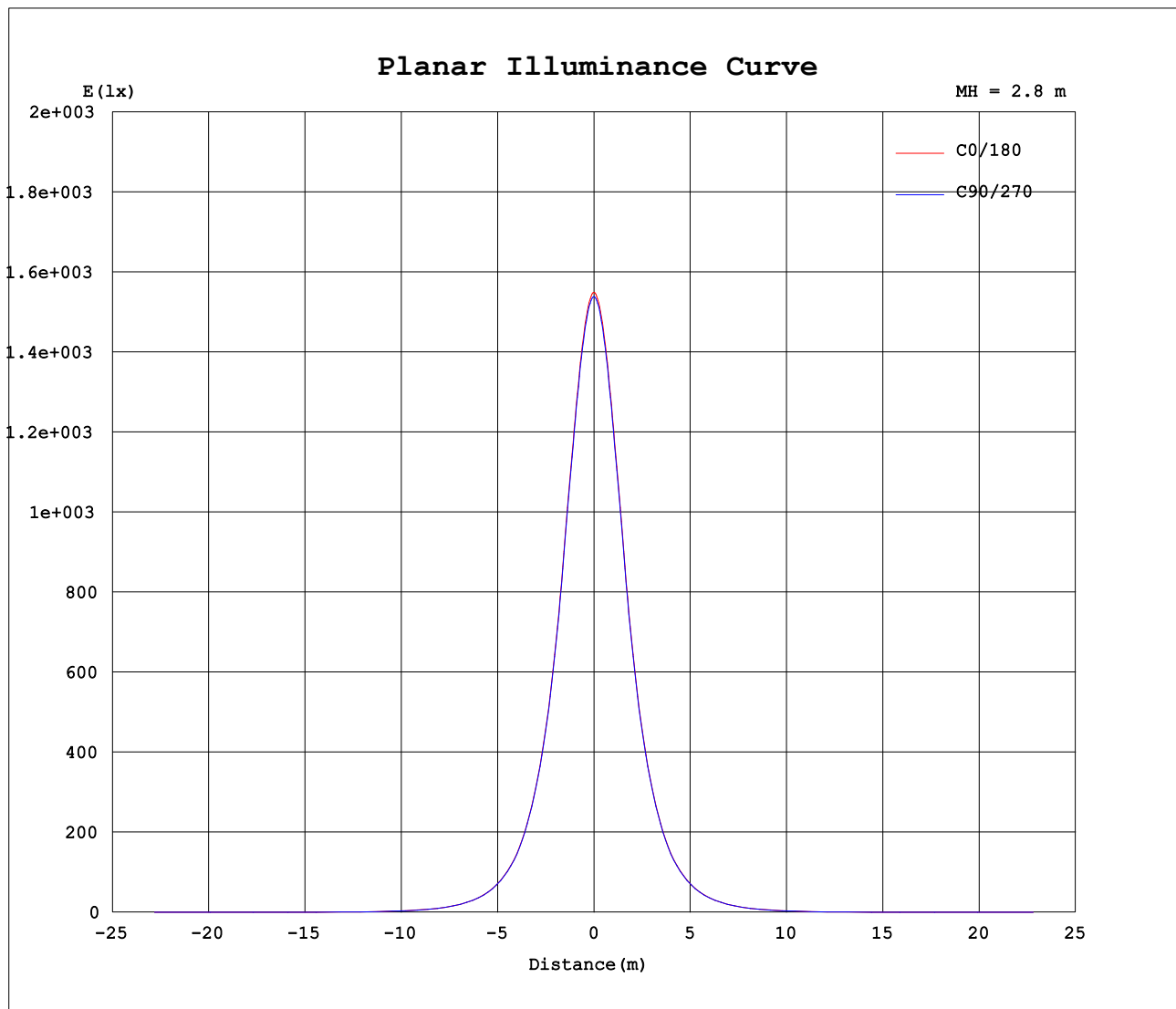
AvgL	cd/m2
L_0~180 (65) av	134609
L_0~180 (75) av	81218
L_0~180 (85) av	11781
L_90~270 (65) av	134315
L_90~270 (75) av	81130
L_90~270 (85) av	11679
L_45 (65) av	134349
L_45 (75) av	80991
L_45 (85) av	11808

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-08

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 53.0%  
Test Distance: 10.380m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm																		
NAME: H03DGC-18-R380-BO-40G-R7									TYPE:					WEIGHT:				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: ERVAN									SUR.:					Shielding Angle:				

Table--1

UNIT: ×10cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207	1207
5	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201	1201
10	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188	1188
15	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166	1166
20	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135	1135
25	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095	1095
30	1037	1036	1036	1037	1037	1037	1037	1037	1037	1037	1036	1036	1037	1036	1036	1037	1037	1037	1037
35	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962	962
40	887	887	887	887	887	887	887	887	887	887	887	887	887	887	887	887	887	887	887
45	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807	807
50	716	716	717	717	716	716	716	716	716	717	717	716	716	716	717	717	716	716	716
55	607	607	607	607	607	607	607	607	607	607	607	607	607	607	607	607	607	607	607
60	497	497	497	497	497	497	497	497	497	497	497	497	497	497	497	497	497	497	497
65	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375
70	253	252	253	252	253	252	252	252	253	252	253	252	253	252	253	252	253	252	252
75	139	138	139	138	138	138	139	138	138	138	139	138	139	138	139	138	138	138	139
80	51.3	51.1	51.0	50.9	50.9	51.0	51.0	51.0	50.9	50.9	51.0	51.1	51.3	51.1	51.0	50.9	50.9	51.0	51.0
85	6.78	6.77	6.79	6.79	6.81	6.75	6.72	6.75	6.81	6.79	6.79	6.77	6.78	6.77	6.79	6.79	6.81	6.75	6.72
90	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
95	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
100	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14	2.14
105	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72
110	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35	3.35
115	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
120	4.65	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.64	4.65	4.64	4.64	4.64	4.64	4.64	4.64
125	5.27	5.27	5.27	5.28	5.27	5.28	5.27	5.28	5.27	5.28	5.27	5.27	5.27	5.27	5.27	5.28	5.27	5.28	5.27
130	5.91	5.91	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.92	5.91	5.91	5.91	5.92	5.92	5.92	5.92	5.92
135	6.56	6.56	6.56	6.57	6.57	6.57	6.57	6.57	6.57	6.57	6.56	6.56	6.56	6.56	6.56	6.57	6.57	6.57	6.57
140	7.19	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.18	7.19	7.18	7.18	7.18	7.18	7.18	7.18
145	7.82	7.80	7.80	7.80	7.81	7.80	7.81	7.80	7.81	7.80	7.80	7.80	7.82	7.80	7.80	7.80	7.81	7.80	7.81
150	8.40	8.39	8.38	8.38	8.39	8.39	8.39	8.39	8.39	8.38	8.38	8.39	8.40	8.39	8.38	8.38	8.39	8.39	8.39
155	8.93	8.91	8.90	8.91	8.92	8.91	8.91	8.91	8.92	8.91	8.90	8.91	8.93	8.91	8.90	8.91	8.92	8.91	8.91
160	9.42	9.39	9.38	9.39	9.40	9.40	9.39	9.40	9.40	9.39	9.38	9.39	9.42	9.39	9.38	9.39	9.40	9.40	9.39
165	9.84	9.82	9.81	9.82	9.83	9.82	9.82	9.82	9.83	9.82	9.81	9.82	9.84	9.82	9.81	9.82	9.83	9.82	9.82
170	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2	10.2
175	10.5	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.5	10.4	10.4	10.4	10.4	10.4	10.4
180	10.6	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.6	10.5	10.5	10.5	10.6	10.5	10.5

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.4V I:0.8124A P:180.3W PF:0.9632 Freq:49.99Hz Lamp Flux:32817.6x1 lm		
NAME: H03DGC-18-R380-BO-40G-R7	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

γ \ C (DEG)	285	300	315	330	345													
0	1207	1207	1207	1207	1207													
5	1201	1201	1201	1201	1201													
10	1188	1188	1188	1188	1188													
15	1166	1166	1166	1166	1166													
20	1135	1135	1135	1135	1135													
25	1095	1095	1095	1095	1095													
30	1037	1037	1037	1036	1036													
35	962	962	962	962	962													
40	887	887	887	887	887													
45	807	807	807	807	807													
50	716	716	717	717	716													
55	607	607	607	607	607													
60	497	497	497	497	497													
65	375	375	375	375	375													
70	252	253	252	253	252													
75	138	138	138	139	138													
80	51.0	50.9	50.9	51.0	51.1													
85	6.75	6.81	6.79	6.79	6.77													
90	1.24	1.24	1.24	1.24	1.24													
95	1.64	1.64	1.64	1.64	1.64													
100	2.14	2.14	2.14	2.14	2.14													
105	2.72	2.72	2.72	2.72	2.72													
110	3.35	3.35	3.35	3.35	3.35													
115	4.00	4.00	4.00	4.00	4.00													
120	4.64	4.64	4.64	4.64	4.64													
125	5.28	5.27	5.28	5.27	5.27													
130	5.92	5.92	5.92	5.92	5.91													
135	6.57	6.57	6.57	6.56	6.56													
140	7.18	7.18	7.18	7.18	7.18													
145	7.80	7.81	7.80	7.80	7.80													
150	8.39	8.39	8.38	8.38	8.39													
155	8.91	8.92	8.91	8.90	8.91													
160	9.40	9.40	9.39	9.38	9.39													
165	9.82	9.83	9.82	9.81	9.82													
170	10.2	10.2	10.2	10.2	10.2													
175	10.4	10.4	10.4	10.4	10.4													
180	10.5	10.6	10.5	10.5	10.5													

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks:

Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	12070	12070	12070	12070	12070	12070	12070	12070	12070	12070
3.0	12045	12045	12045	12045	12045	12046	12046	12046	12045	12045
6.0	11992	11992	11992	11992	11991	11992	11991	11992	11991	11992
9.0	11913	11912	11912	11912	11911	11912	11912	11912	11911	11912
12.0	11802	11801	11801	11800	11800	11801	11800	11801	11800	11800
15.0	11660	11659	11659	11658	11658	11659	11659	11659	11658	11658
18.0	11486	11484	11484	11483	11483	11483	11484	11483	11483	11483
21.0	11278	11275	11275	11275	11274	11276	11276	11276	11274	11275
24.0	11036	11036	11035	11034	11034	11036	11034	11036	11034	11034
27.0	10754	10753	10752	10750	10751	10751	10753	10751	10751	10750
30.0	10366	10363	10365	10366	10367	10368	10369	10368	10367	10366
33.0	9916	9913	9913	9915	9917	9919	9918	9919	9917	9915
36.0	9474	9471	9469	9469	9472	9472	9472	9472	9472	9469
39.0	9026	9024	9023	9021	9025	9026	9024	9026	9025	9021
42.0	8563	8564	8563	8561	8561	8563	8560	8563	8561	8561
45.0	8071	8069	8070	8069	8067	8067	8066	8067	8067	8069
48.0	7544	7542	7543	7544	7540	7539	7538	7539	7540	7544
51.0	6946	6948	6956	6958	6951	6949	6952	6949	6951	6958
54.0	6288	6287	6288	6289	6291	6288	6282	6288	6291	6289
57.0	5647	5641	5642	5641	5646	5643	5637	5643	5646	5641
60.0	4972	4971	4970	4973	4971	4971	4967	4971	4971	4973
63.0	4230	4229	4229	4230	4231	4229	4229	4229	4231	4230
66.0	3520	3513	3512	3513	3514	3513	3509	3513	3514	3513
69.0	2770	2763	2765	2764	2766	2764	2763	2764	2766	2764
72.0	2065	2060	2058	2057	2059	2059	2059	2059	2059	2057
75.0	1387	1384	1386	1383	1385	1384	1386	1384	1385	1383
78.0	817.1	812.4	813.1	810.6	810.1	811.3	811.7	811.3	810.1	810.6
81.0	383.8	383.2	382.0	381.9	381.9	381.5	381.5	381.5	381.9	381.9
84.0	124.4	124.8	124.0	124.1	119.7	124.1	114.3	124.1	119.7	124.1
87.0	24.62	24.88	25.06	24.97	24.98	25.03	25.02	25.03	24.98	24.97
90.0	12.38	12.39	12.38	12.40	12.37	12.35	12.37	12.35	12.37	12.40
93.0	14.65	14.66	14.64	14.66	14.64	14.63	14.63	14.63	14.64	14.66
96.0	17.30	17.34	17.30	17.33	17.29	17.31	17.29	17.31	17.29	17.33
99.0	20.32	20.34	20.32	20.35	20.31	20.33	20.32	20.33	20.31	20.35
102.0	23.63	23.65	23.62	23.65	23.61	23.62	23.61	23.62	23.61	23.65
105.0	27.18	27.20	27.18	27.20	27.16	27.20	27.16	27.20	27.16	27.20
108.0	30.93	30.95	30.92	30.96	30.92	30.95	30.93	30.95	30.92	30.96
111.0	34.81	34.82	34.78	34.82	34.78	34.81	34.77	34.81	34.78	34.82
114.0	38.70	38.70	38.68	38.71	38.67	38.70	38.68	38.70	38.67	38.71
117.0	42.59	42.60	42.56	42.60	42.56	42.59	42.57	42.59	42.56	42.60
120.0	46.45	46.39	46.38	46.41	46.42	46.40	46.38	46.40	46.42	46.41
123.0	50.20	50.19	50.17	50.20	50.21	50.20	50.19	50.20	50.21	50.20
126.0	53.95	54.02	54.01	54.04	54.02	54.05	54.04	54.05	54.02	54.04
129.0	57.81	57.86	57.86	57.90	57.89	57.91	57.89	57.91	57.89	57.90
132.0	61.76	61.75	61.78	61.83	61.82	61.83	61.81	61.83	61.82	61.83
135.0	65.65	65.61	65.63	65.68	65.67	65.68	65.66	65.68	65.67	65.68
138.0	69.32	69.26	69.25	69.28	69.32	69.29	69.27	69.29	69.32	69.28
141.0	73.19	73.04	73.03	73.04	73.12	73.07	73.08	73.07	73.12	73.04
144.0	77.01	76.80	76.82	76.84	76.94	76.86	76.90	76.86	76.94	76.84
147.0	80.51	80.37	80.37	80.36	80.43	80.40	80.45	80.40	80.43	80.36
150.0	83.97	83.85	83.85	83.84	83.93	83.88	83.94	83.88	83.93	83.84
153.0	87.22	87.04	87.01	87.03	87.13	87.08	87.09	87.08	87.13	87.03
156.0	90.30	90.08	90.02	90.05	90.17	90.10	90.07	90.10	90.17	90.05
159.0	93.24	92.99	92.88	92.95	93.08	93.03	92.99	93.03	93.08	92.95
162.0	95.95	95.73	95.62	95.70	95.83	95.78	95.72	95.78	95.83	95.70
165.0	98.41	98.21	98.11	98.18	98.28	98.23	98.18	98.23	98.28	98.18
168.0	100.8	100.6	100.5	100.5	100.6	100.6	100.6	100.6	100.6	100.5
171.0	102.7	102.5	102.4	102.5	102.5	102.5	102.5	102.5	102.5	102.5
174.0	104.2	104.0	103.8	104.0	104.1	104.0	104.0	104.0	104.1	104.0
177.0	105.1	104.8	104.7	104.8	104.9	104.8	104.8	104.8	104.9	104.8
180.0	105.8	105.4	105.3	105.4	105.5	105.4	105.3	105.4	105.5	105.4
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	12070	12070	12070	12070	12070	12070	12070	12070	12070	12070
3.0	12045	12045	12045	12045	12045	12045	12045	12046	12046	12046
6.0	11992	11992	11992	11992	11992	11992	11991	11992	11991	11992
9.0	11912	11912	11913	11912	11912	11912	11911	11912	11912	11912
12.0	11801	11801	11802	11801	11801	11800	11800	11801	11800	11801
15.0	11659	11659	11660	11659	11659	11658	11658	11659	11659	11659
18.0	11484	11484	11486	11484	11484	11483	11483	11483	11484	11483
21.0	11275	11275	11278	11275	11275	11275	11274	11276	11276	11276
24.0	11035	11036	11036	11036	11035	11034	11034	11036	11034	11036
27.0	10752	10753	10754	10753	10752	10750	10751	10751	10753	10751
30.0	10365	10363	10366	10363	10365	10366	10367	10368	10369	10368

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:

Photometric Data Table [cd]

33.0	9913	9913	9916	9913	9913	9915	9917	9919	9918	9919
36.0	9469	9471	9474	9471	9469	9469	9472	9472	9472	9472
39.0	9023	9024	9026	9024	9023	9021	9025	9026	9024	9026
42.0	8563	8564	8563	8564	8563	8561	8561	8563	8560	8563
45.0	8070	8069	8071	8069	8070	8069	8067	8067	8066	8067
48.0	7543	7542	7544	7542	7543	7544	7540	7539	7538	7539
51.0	6956	6948	6946	6948	6956	6958	6951	6949	6952	6949
54.0	6288	6287	6288	6287	6288	6289	6291	6288	6282	6288
57.0	5642	5641	5647	5641	5642	5641	5646	5643	5637	5643
60.0	4970	4971	4972	4971	4970	4973	4971	4971	4967	4971
63.0	4229	4229	4230	4229	4229	4230	4231	4229	4229	4229
66.0	3512	3513	3520	3513	3512	3513	3514	3513	3509	3513
69.0	2765	2763	2770	2763	2765	2764	2766	2764	2763	2764
72.0	2058	2060	2065	2060	2058	2057	2059	2059	2059	2059
75.0	1386	1384	1387	1384	1386	1383	1385	1384	1386	1384
78.0	813.1	812.4	817.1	812.4	813.1	810.6	810.1	811.3	811.7	811.3
81.0	382.0	383.2	383.8	383.2	382.0	381.9	381.9	381.5	381.5	381.5
84.0	124.0	124.8	124.4	124.8	124.0	124.1	119.7	124.1	114.3	124.1
87.0	25.06	24.88	24.62	24.88	25.06	24.97	24.98	25.03	25.02	25.03
90.0	12.38	12.39	12.38	12.39	12.38	12.40	12.37	12.35	12.37	12.35
93.0	14.64	14.66	14.65	14.66	14.64	14.66	14.64	14.63	14.63	14.63
96.0	17.30	17.34	17.30	17.34	17.30	17.33	17.29	17.31	17.29	17.31
99.0	20.32	20.34	20.32	20.34	20.32	20.35	20.31	20.33	20.32	20.33
102.0	23.62	23.65	23.63	23.65	23.62	23.65	23.61	23.62	23.61	23.62
105.0	27.18	27.20	27.18	27.20	27.18	27.20	27.16	27.20	27.16	27.20
108.0	30.92	30.95	30.93	30.95	30.92	30.96	30.92	30.95	30.93	30.95
111.0	34.78	34.82	34.81	34.82	34.78	34.82	34.78	34.81	34.77	34.81
114.0	38.68	38.70	38.70	38.70	38.68	38.71	38.67	38.70	38.68	38.70
117.0	42.56	42.60	42.59	42.60	42.56	42.60	42.56	42.59	42.57	42.59
120.0	46.38	46.39	46.45	46.38	46.38	46.41	46.42	46.40	46.38	46.40
123.0	50.17	50.19	50.20	50.19	50.17	50.20	50.21	50.20	50.19	50.20
126.0	54.01	54.02	53.95	54.02	54.01	54.04	54.02	54.05	54.04	54.05
129.0	57.86	57.86	57.81	57.86	57.86	57.90	57.89	57.91	57.89	57.91
132.0	61.78	61.75	61.76	61.75	61.78	61.83	61.82	61.83	61.81	61.83
135.0	65.63	65.61	65.65	65.61	65.63	65.68	65.67	65.68	65.66	65.68
138.0	69.25	69.26	69.32	69.26	69.25	69.28	69.32	69.29	69.27	69.29
141.0	73.03	73.04	73.19	73.03	73.03	73.04	73.12	73.07	73.08	73.07
144.0	76.82	76.80	77.01	76.80	76.82	76.84	76.94	76.86	76.90	76.86
147.0	80.37	80.37	80.51	80.37	80.37	80.36	80.43	80.40	80.45	80.40
150.0	83.85	83.85	83.97	83.85	83.85	83.84	83.93	83.88	83.94	83.88
153.0	87.01	87.04	87.22	87.04	87.01	87.03	87.13	87.08	87.09	87.08
156.0	90.02	90.08	90.30	90.08	90.02	90.05	90.17	90.10	90.07	90.10
159.0	92.88	92.99	93.24	92.99	92.88	92.95	93.08	93.03	92.99	93.03
162.0	95.62	95.73	95.95	95.73	95.62	95.70	95.83	95.78	95.72	95.78
165.0	98.11	98.21	98.41	98.21	98.11	98.18	98.28	98.23	98.18	98.23
168.0	100.5	100.6	100.8	100.6	100.5	100.5	100.6	100.6	100.6	100.6
171.0	102.4	102.5	102.7	102.5	102.4	102.5	102.5	102.5	102.5	102.5
174.0	103.8	104.0	104.2	104.0	103.8	104.0	104.1	104.0	104.0	104.0
177.0	104.7	104.8	105.1	104.8	104.7	104.8	104.9	104.8	104.8	104.8
180.0	105.3	105.4	105.8	105.4	105.3	105.4	105.5	105.4	105.3	105.4
G/C	300.0	315.0	330.0	345.0						
0.0	12070	12070	12070	12070						
3.0	12045	12045	12045	12045						
6.0	11991	11992	11992	11992						
9.0	11911	11912	11912	11912						
12.0	11800	11800	11801	11801						
15.0	11658	11658	11659	11659						
18.0	11483	11483	11484	11484						
21.0	11274	11275	11275	11275						
24.0	11034	11034	11035	11036						
27.0	10751	10750	10752	10753						
30.0	10367	10366	10365	10363						
33.0	9917	9915	9913	9913						
36.0	9472	9469	9469	9471						
39.0	9025	9021	9023	9024						
42.0	8561	8561	8563	8564						
45.0	8067	8069	8070	8069						
48.0	7540	7544	7543	7542						
51.0	6951	6958	6956	6948						
54.0	6291	6289	6288	6287						
57.0	5646	5641	5642	5641						
60.0	4971	4973	4970	4971						
63.0	4231	4230	4229	4229						
66.0	3514	3513	3512	3513						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity: 53.0%  
 Test Distance: 10.380m [K=1.0000]  
 Remarks:



Photometric Data Table [cd]

69.0	2766	2764	2765	2763
72.0	2059	2057	2058	2060
75.0	1385	1383	1386	1384
78.0	810.1	810.6	813.1	812.4
81.0	381.9	381.9	382.0	383.2
84.0	119.7	124.1	124.0	124.8
87.0	24.98	24.97	25.06	24.88
90.0	12.37	12.40	12.38	12.39
93.0	14.64	14.66	14.64	14.66
96.0	17.29	17.33	17.30	17.34
99.0	20.31	20.35	20.32	20.34
102.0	23.61	23.65	23.62	23.65
105.0	27.16	27.20	27.18	27.20
108.0	30.92	30.96	30.92	30.95
111.0	34.78	34.82	34.78	34.82
114.0	38.67	38.71	38.68	38.70
117.0	42.56	42.60	42.56	42.60
120.0	46.42	46.41	46.38	46.39
123.0	50.21	50.20	50.17	50.19
126.0	54.02	54.04	54.01	54.02
129.0	57.89	57.90	57.86	57.86
132.0	61.82	61.83	61.78	61.75
135.0	65.67	65.68	65.63	65.61
138.0	69.32	69.28	69.25	69.26
141.0	73.12	73.04	73.03	73.04
144.0	76.94	76.84	76.82	76.80
147.0	80.43	80.36	80.37	80.37
150.0	83.93	83.84	83.85	83.85
153.0	87.13	87.03	87.01	87.04
156.0	90.17	90.05	90.02	90.08
159.0	93.08	92.95	92.88	92.99
162.0	95.83	95.70	95.62	95.73
165.0	98.28	98.18	98.11	98.21
168.0	100.6	100.5	100.5	100.6
171.0	102.5	102.5	102.4	102.5
174.0	104.1	104.0	103.8	104.0
177.0	104.9	104.8	104.7	104.8
180.0	105.5	105.4	105.3	105.4

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-08

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
 Humidity:53.0%  
 Test Distance:10.380m [K=1.0000]  
 Remarks: