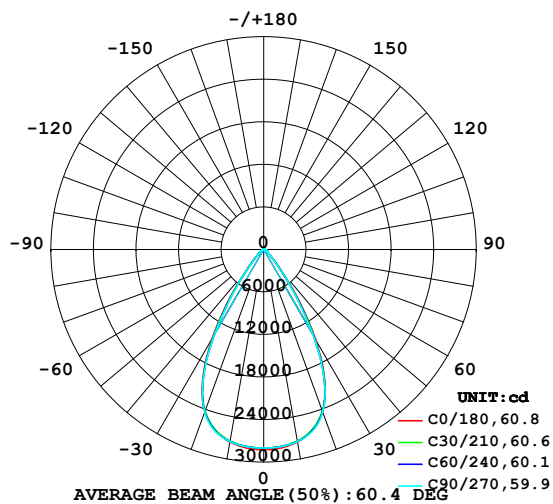


## LUMINAIRE PHOTOMETRIC TEST REPORT

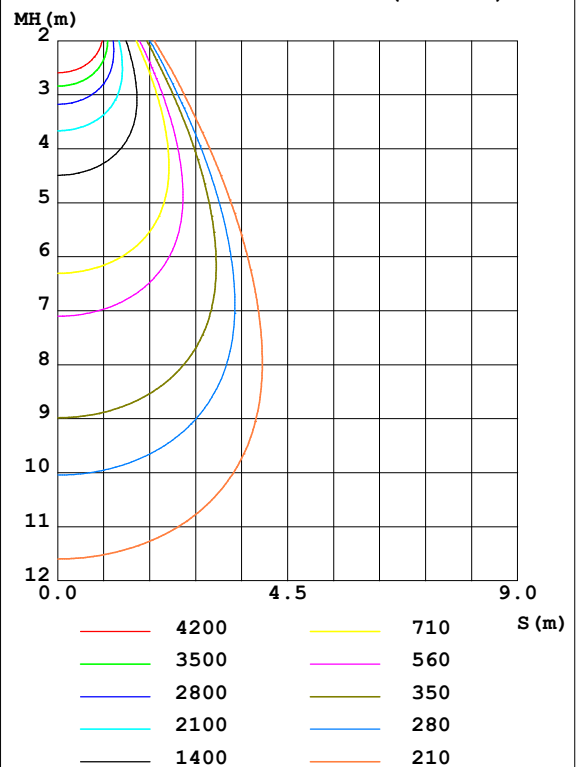
Test:U:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 180.65 lm/W			
MODEL		I <sub>max</sub> (cd)	28243	S/MH (C0/180)	0.89
NOMINAL POWER (W)	150	LOR (%)	100.0	S/MH (C90/270)	0.88
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	27002	η UP, DN (C0-180)	0.5, 49.5
NOMINAL FLUX (lm)	27001.6	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 49.5
LAMPS INSIDE	1	η up (%)	1.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	230	η down (%)	99.0	CIBSE SHR MAX	0.90

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: 2020-04-07

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:

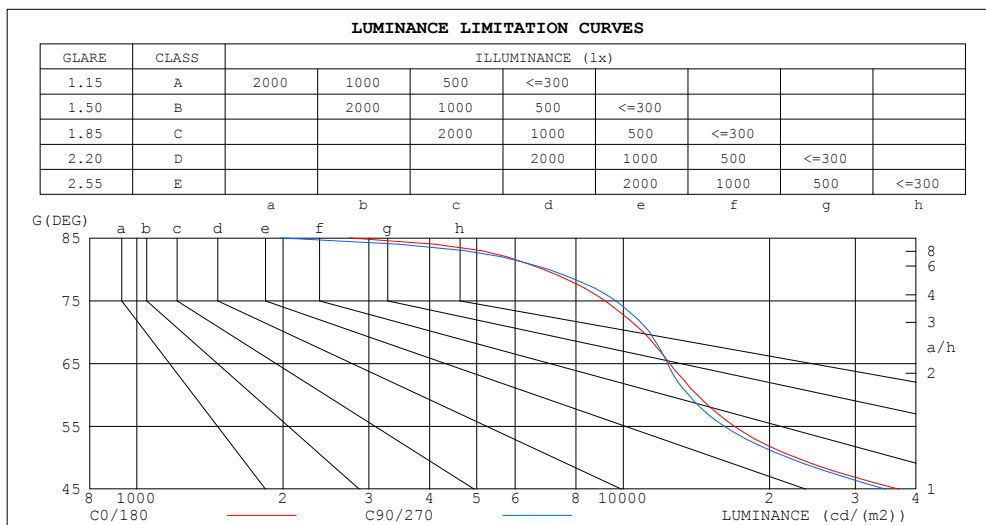
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	2756	2746	2752	2746	2756	2746	2752	2746	0- 10	2650	2650	9.82,9.82
20	2429	2426	2439	2426	2429	2426	2439	2426	10- 20	7390	10041	37.2,37.2
30	1462	1426	1395	1426	1462	1426	1395	1426	20- 30	9086	19127	70.8,70.8
40	385.8	362.8	341.2	362.8	385.8	362.8	341.2	362.8	30- 40	5057	24184	89.6,89.6
50	96.00	93.90	92.44	93.90	96.00	93.90	92.44	93.90	40- 50	1423	25607	94.8,94.8
60	46.83	46.72	44.96	46.72	46.83	46.72	44.96	46.72	50- 60	578.3	26186	97,97
70	24.81	26.16	25.56	26.16	24.81	26.16	25.56	26.16	60- 70	349.0	26535	98.3,98.3
80	7.849	8.233	8.028	8.233	7.849	8.233	8.028	8.233	70- 80	174.0	26709	98.9,98.9
90	0.1719	0.1777	0.1749	0.1777	0.1719	0.1777	0.1749	0.1777	80- 90	27.28	26736	99,99
100	0.3303	0.3691	0.3542	0.3691	0.3303	0.3691	0.3542	0.3691	90-100	2.726	26739	99,99
110	0.9636	1.087	1.053	1.087	0.9636	1.087	1.053	1.087	100-110	6.872	26746	99.1,99.1
120	2.448	2.556	2.526	2.556	2.448	2.556	2.526	2.556	110-120	17.32	26763	99.1,99.1
130	4.619	4.646	4.620	4.646	4.619	4.646	4.620	4.646	120-130	31.54	26794	99.2,99.2
140	7.365	7.382	7.359	7.382	7.365	7.382	7.359	7.382	130-140	45.90	26840	99.4,99.4
150	10.29	10.27	10.28	10.27	10.29	10.27	10.28	10.27	140-150	55.17	26896	99.6,99.6
160	12.75	12.68	12.71	12.68	12.75	12.68	12.71	12.68	150-160	52.95	26948	99.8,99.8
170	14.89	14.71	14.74	14.71	14.89	14.71	14.74	14.71	160-170	38.65	26987	99.9,99.9
180	15.81	15.65	15.63	15.65	15.81	15.65	15.63	15.65	170-180	14.45	27002	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-07

$\gamma$  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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



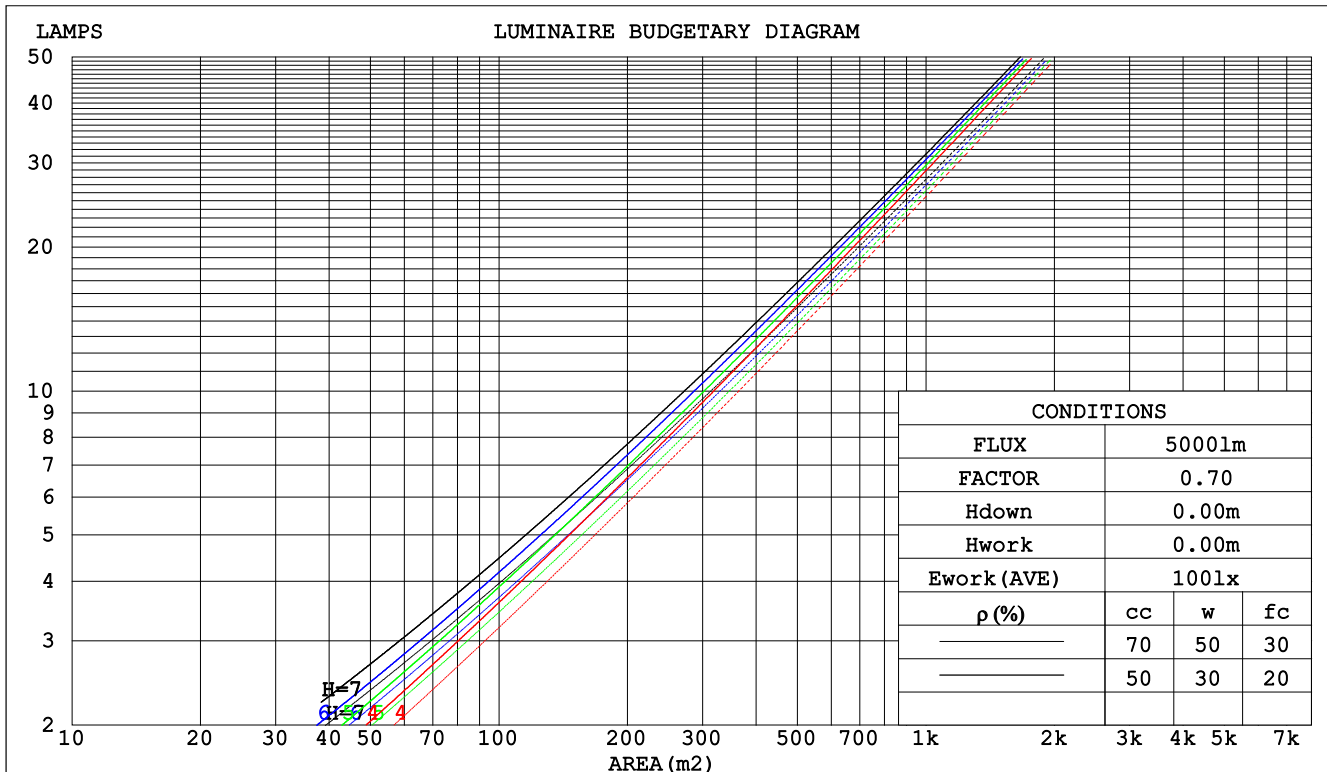
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	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	1.10	1.08	1.05	1.08	1.06	1.03	1.04	1.02	1.00	.90	.98	.97	.96	.95	.94	.92
2.0	1.02	.98	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.90	.86	.93	.89	.85	.91	.87	.83	.88	.85	.82	.86	.83	.81	.79
4.0	.89	.83	.79	.87	.82	.78	.85	.81	.77	.83	.79	.76	.81	.78	.75	.73
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.76	.73	.70	.68
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.66	.74	.69	.66	.72	.68	.65	.64
7.0	.73	.67	.62	.72	.66	.62	.71	.66	.62	.70	.65	.61	.68	.64	.61	.60
8.0	.69	.63	.58	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.60	.57	.56
9.0	.65	.59	.55	.64	.59	.55	.63	.58	.54	.62	.58	.54	.61	.57	.54	.53
10.0	.61	.55	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.58	.54	.51	.49



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	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	.186	.106	.033	.179	.102	.032	.165	.095	.030	.153	.088	.028	.142	.082	.027	
2.0	.177	.097	.030	.172	.094	.029	.160	.089	.028	.150	.084	.026	.141	.079	.025	
3.0	.169	.090	.027	.163	.088	.026	.154	.083	.025	.145	.079	.024	.137	.076	.023	
4.0	.160	.083	.024	.156	.081	.024	.147	.078	.023	.140	.075	.023	.132	.072	.022	
5.0	.152	.078	.022	.148	.076	.022	.141	.073	.022	.134	.071	.021	.128	.068	.021	
6.0	.145	.073	.021	.141	.071	.021	.135	.069	.020	.129	.067	.020	.123	.065	.019	
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.018	.119	.062	.018	
8.0	.132	.064	.018	.129	.064	.018	.124	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.126	.061	.017	.124	.060	.017	.119	.059	.017	.115	.058	.016	.111	.056	.016	
10.0	.121	.058	.016	.119	.057	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	

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	.179	.165	.152	.153	.141	.131	.105	.097	.090	.060	.056	.053	.019	.018	.017	
2.0	.165	.140	.119	.141	.121	.103	.097	.083	.072	.056	.049	.042	.018	.016	.014	
3.0	.153	.121	.096	.131	.105	.083	.090	.073	.059	.052	.042	.035	.017	.014	.011	
4.0	.143	.107	.079	.122	.092	.069	.084	.064	.048	.049	.038	.029	.016	.012	.009	
5.0	.134	.095	.067	.115	.082	.058	.079	.058	.041	.046	.034	.024	.015	.011	.008	
6.0	.127	.086	.057	.109	.074	.049	.075	.052	.035	.044	.031	.021	.014	.010	.007	
7.0	.120	.078	.049	.103	.068	.043	.071	.048	.030	.042	.028	.018	.013	.009	.006	
8.0	.115	.072	.043	.099	.063	.038	.068	.044	.027	.040	.026	.016	.013	.009	.005	
9.0	.109	.067	.039	.094	.058	.034	.065	.041	.024	.038	.024	.014	.012	.008	.005	
10.0	.105	.063	.035	.090	.055	.030	.063	.038	.022	.037	.023	.013	.012	.007	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm										
NAME: H03DTC-15-R380-60-40G-R8					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	9.8	10.8	10.1	11.0	11.2	9.5	10.4	9.7	10.6	10.8
3H	9.9	10.8	10.2	11.0	11.2	9.6	10.5	9.8	10.7	10.9
4H	9.9	10.8	10.2	11.0	11.3	9.6	10.5	9.9	10.7	10.9
6H	9.9	10.7	10.2	11.0	11.2	9.6	10.4	9.9	10.7	10.9
8H	9.9	10.7	10.2	10.9	11.2	9.6	10.3	9.9	10.6	10.9
12H	9.9	10.6	10.2	10.9	11.2	9.5	10.3	9.9	10.6	10.9
4H 2H	9.7	10.5	10.0	10.8	11.0	9.4	10.2	9.6	10.4	10.7
3H	9.9	10.6	10.2	10.9	11.2	9.6	10.3	9.9	10.6	10.9
4H	10.0	10.6	10.3	10.9	11.3	9.7	10.3	10.0	10.6	11.0
6H	10.0	10.6	10.4	10.9	11.3	9.7	10.3	10.1	10.6	11.0
8H	10.0	10.5	10.4	10.9	11.3	9.7	10.2	10.1	10.6	11.0
12H	9.9	10.4	10.4	10.8	11.2	9.6	10.1	10.1	10.5	10.9
8H 4H	9.9	10.4	10.3	10.8	11.2	9.6	10.1	10.0	10.5	10.9
6H	10.0	10.4	10.4	10.8	11.2	9.7	10.1	10.1	10.5	11.0
8H	10.0	10.3	10.4	10.8	11.2	9.7	10.1	10.1	10.5	11.0
12H	9.9	10.2	10.4	10.7	11.2	9.6	10.0	10.1	10.4	10.9
12H 4H	9.9	10.3	10.3	10.7	11.1	9.6	10.1	10.0	10.5	10.9
6H	9.9	10.3	10.4	10.7	11.2	9.6	10.0	10.1	10.5	10.9
8H	9.9	10.3	10.4	10.7	11.2	9.6	10.0	10.1	10.4	10.9
Variations with the observer position at spacings:										
S = 1.0H	+ 2.5 / - 3.2					+ 2.3 / - 2.9				
1.5H	+ 4.4 / - 2.7					+ 4.1 / - 2.5				
2.0H	+ 2.6 / - 1.2					+ 2.4 / - 1.1				

CIE Pub.117, 27002 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.5)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

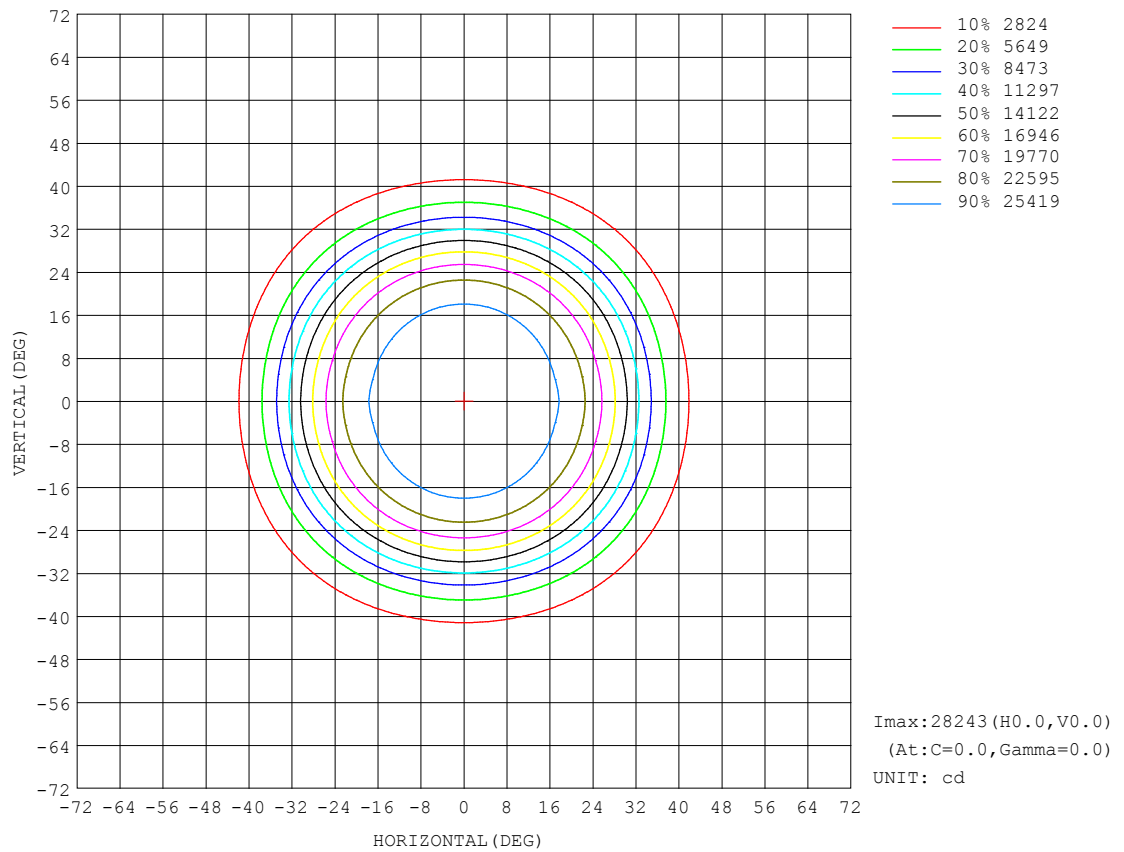
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	85	78	74	85	78	74	84	78	74	70
0.80	93	86	82	92	86	82	91	85	82	78
1.00	97	91	88	96	91	87	95	91	87	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	104	99	96	103	99	95	101	97	94	89
2.00	107	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	101	99	93
3.00	111	107	104	109	106	103	105	103	101	94
4.00	113	110	108	111	108	106	107	105	103	96
5.00	114	112	110	112	110	108	108	106	105	97
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: 2020-04-07

$\gamma$  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:

## ISOCANDELA DIAGRAM

Test:U:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



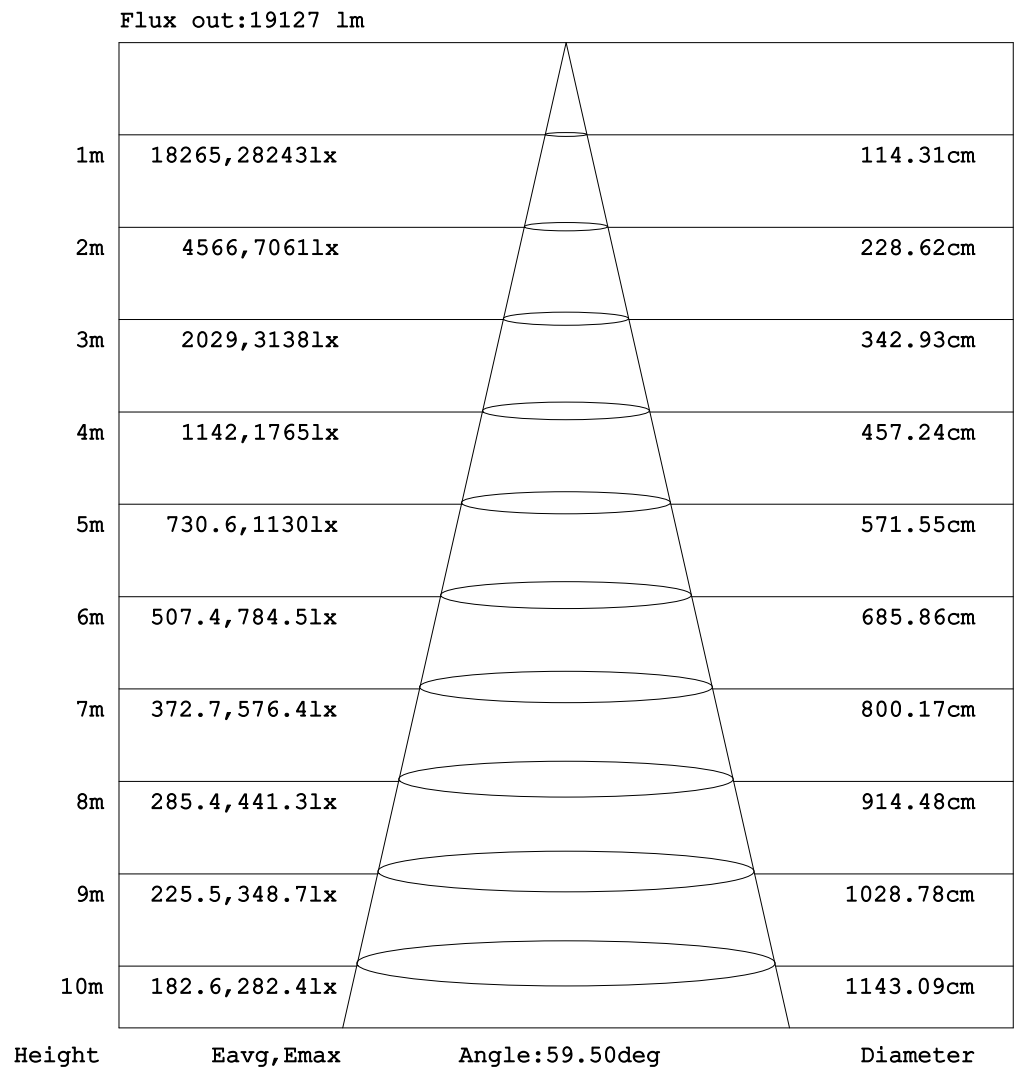
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:



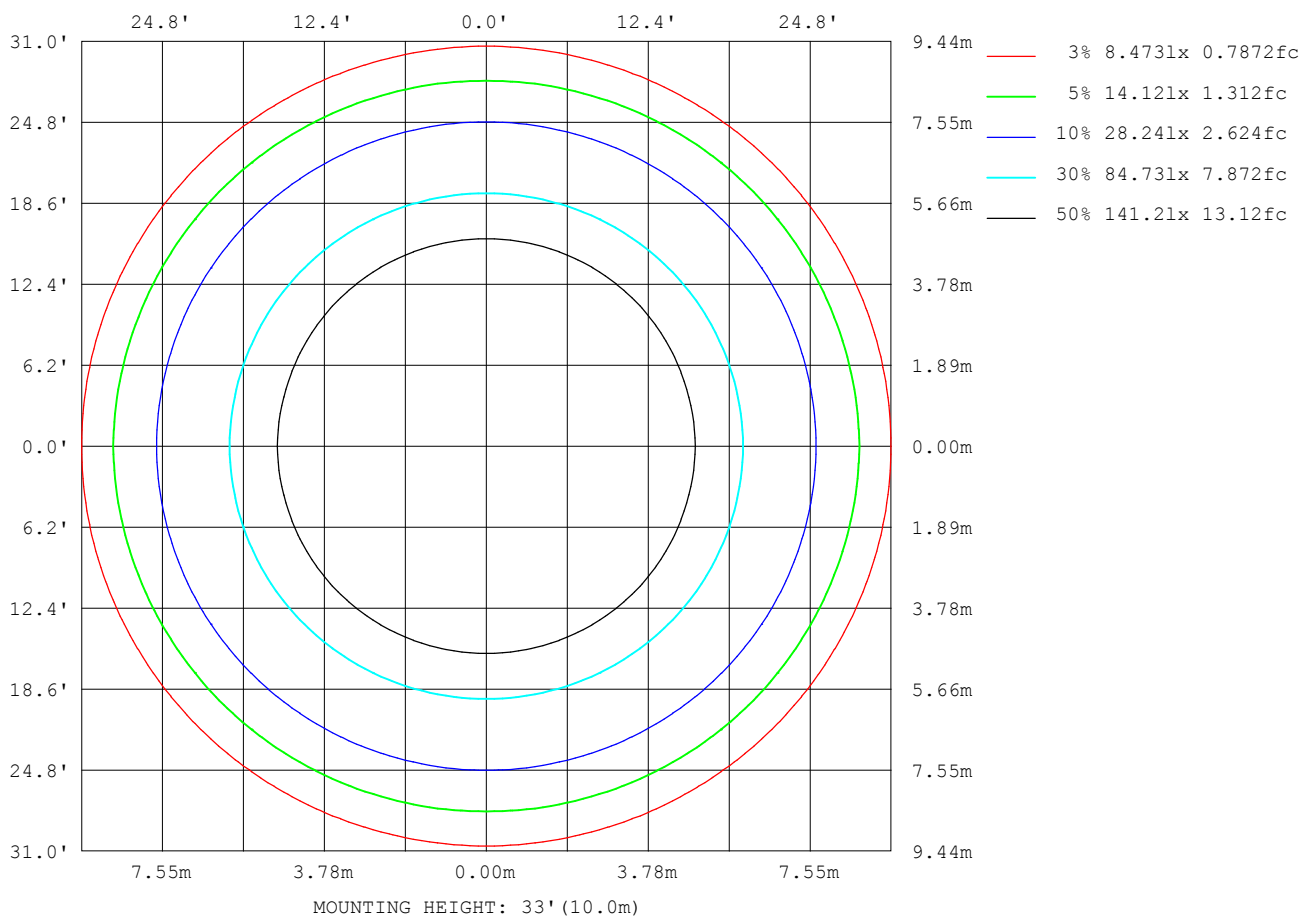
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	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:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

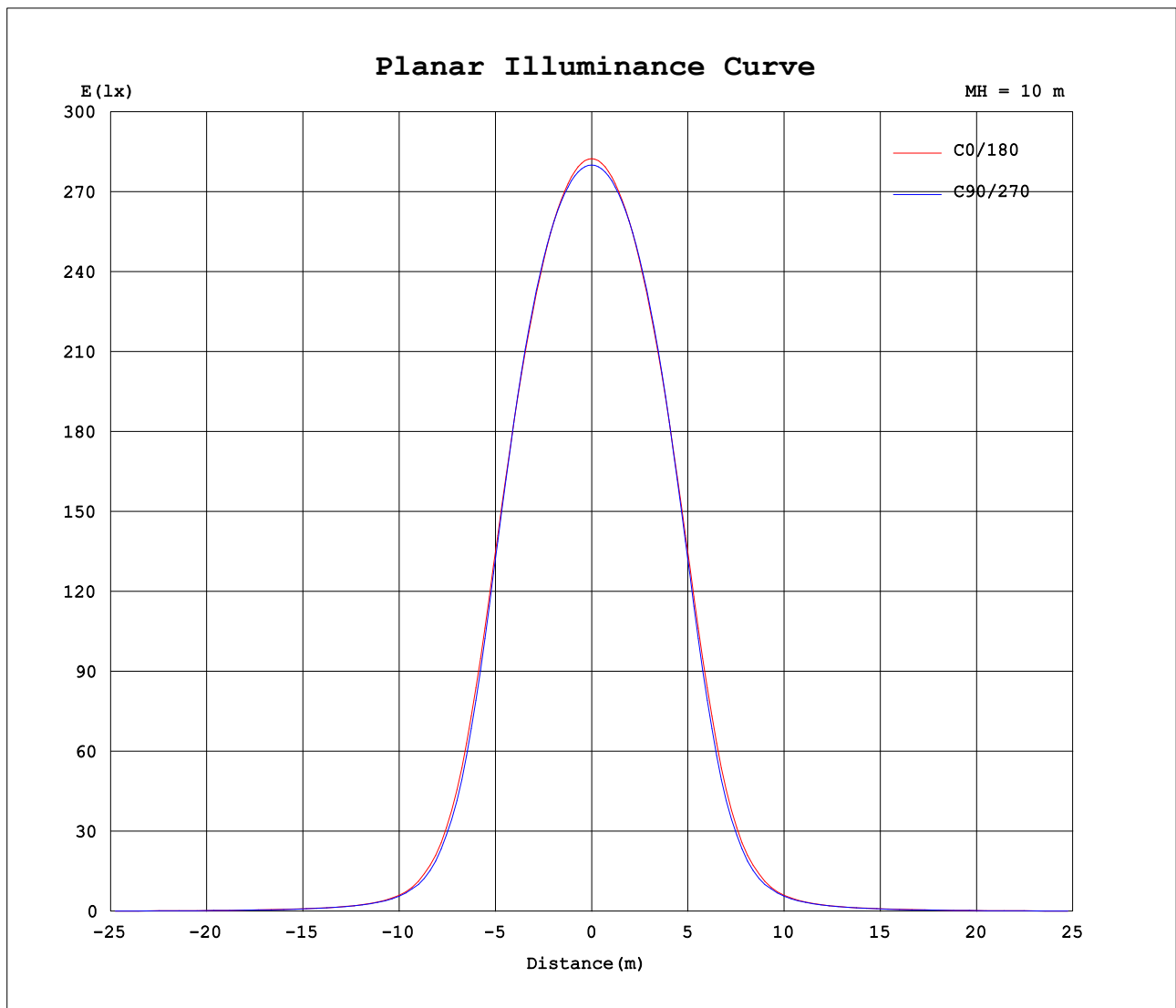
AvgL	cd/m2
L_0~180 (65) av	12472
L_0~180 (75) av	9161
L_0~180 (85) av	2733
L_90~270 (65) av	12334
L_90~270 (75) av	9643
L_90~270 (85) av	1968
L_45 (65) av	12798
L_45 (75) av	9822
L_45 (85) av	2445

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:QC  
 Test Date:2020-04-07

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: 2020-04-07

$\gamma$  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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--1

UNIT: ×10cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2824	2801	2801	2801	2801	2802	2801	2802	2801	2801	2801	2801	2824	2801	2801	2801	2801	2802	2801
5	2809	2786	2787	2789	2790	2792	2791	2792	2790	2789	2787	2786	2809	2786	2787	2789	2790	2792	2791
10	2756	2737	2741	2746	2749	2753	2752	2753	2749	2746	2741	2737	2756	2737	2741	2746	2749	2753	2752
15	2643	2628	2634	2642	2648	2653	2654	2653	2648	2642	2634	2628	2643	2628	2634	2642	2648	2653	2654
20	2429	2417	2420	2426	2432	2438	2439	2438	2432	2426	2420	2417	2429	2417	2420	2426	2432	2438	2439
25	2047	2035	2034	2031	2028	2025	2023	2025	2028	2031	2034	2035	2047	2035	2034	2031	2028	2025	2023
30	1462	1451	1442	1426	1410	1398	1395	1398	1410	1426	1442	1451	1462	1451	1442	1426	1410	1398	1395
35	829	823	810	790	774	760	756	760	774	790	810	823	829	823	810	790	774	760	756
40	386	379	371	363	351	344	341	344	351	363	371	379	386	379	371	363	351	344	341
45	172	171	169	168	165	164	162	164	165	168	169	171	172	171	169	168	165	164	162
50	96.0	95.5	94.2	93.9	93.0	92.8	92.4	92.8	93.0	93.9	94.2	95.5	96.0	95.5	94.2	93.9	93.0	92.8	92.4
55	64.0	63.8	62.3	62.6	61.6	61.5	61.0	61.5	61.6	62.6	62.3	63.8	64.0	63.8	62.3	62.6	61.6	61.5	61.0
60	46.8	47.3	45.7	46.7	45.4	45.6	45.0	45.6	45.4	46.7	45.7	47.3	46.8	47.3	45.7	46.7	45.4	45.6	45.0
65	34.8	36.0	34.4	35.7	34.5	35.0	34.4	35.0	34.5	35.7	34.4	36.0	34.8	36.0	34.4	35.7	34.5	35.0	34.4
70	24.8	26.4	24.8	26.2	25.1	25.9	25.6	25.9	25.1	26.2	24.8	26.4	24.8	26.4	24.8	26.2	25.1	25.9	25.6
75	15.6	16.8	15.8	16.8	16.1	16.7	16.5	16.7	16.1	16.8	15.8	16.8	15.6	16.8	15.8	16.8	16.1	16.7	16.5
80	7.85	8.24	7.88	8.23	7.92	8.14	8.03	8.14	7.92	8.23	7.88	8.24	7.85	8.24	7.88	8.23	7.92	8.14	8.03
85	1.57	1.63	1.47	1.41	1.18	1.17	1.13	1.17	1.18	1.41	1.47	1.63	1.57	1.63	1.47	1.41	1.18	1.17	1.13
90	0.17	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.17	0.18	0.18	0.18	0.18	0.18	0.17
95	0.23	0.25	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.25	0.23	0.25	0.24	0.24	0.24	0.24	0.24
100	0.33	0.38	0.37	0.37	0.36	0.36	0.35	0.36	0.36	0.37	0.37	0.38	0.33	0.38	0.37	0.37	0.36	0.36	0.35
105	0.55	0.65	0.63	0.63	0.61	0.61	0.60	0.61	0.61	0.63	0.63	0.65	0.55	0.65	0.63	0.63	0.61	0.61	0.60
110	0.96	1.11	1.09	1.09	1.07	1.06	1.05	1.06	1.07	1.09	1.09	1.11	0.96	1.11	1.09	1.09	1.07	1.06	1.05
115	1.61	1.77	1.75	1.74	1.72	1.72	1.71	1.72	1.72	1.74	1.75	1.77	1.61	1.77	1.75	1.74	1.72	1.72	1.71
120	2.45	2.58	2.57	2.56	2.54	2.54	2.53	2.54	2.54	2.56	2.57	2.58	2.45	2.58	2.57	2.56	2.54	2.54	2.53
125	3.45	3.54	3.53	3.52	3.50	3.50	3.49	3.50	3.50	3.52	3.53	3.54	3.45	3.54	3.53	3.52	3.50	3.50	3.49
130	4.62	4.66	4.66	4.65	4.63	4.63	4.62	4.63	4.63	4.65	4.66	4.66	4.62	4.66	4.66	4.65	4.63	4.63	4.62
135	5.94	5.96	5.95	5.95	5.94	5.94	5.93	5.94	5.94	5.95	5.95	5.96	5.94	5.96	5.95	5.95	5.94	5.94	5.93
140	7.37	7.38	7.38	7.38	7.36	7.37	7.36	7.37	7.36	7.38	7.38	7.38	7.37	7.38	7.38	7.38	7.36	7.37	7.36
145	8.85	8.85	8.86	8.86	8.85	8.86	8.86	8.86	8.86	8.85	8.86	8.86	8.85	8.85	8.85	8.86	8.86	8.85	8.86
150	10.3	10.2	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.2	10.3	10.2	10.3	10.3	10.3	10.3	10.3
155	11.6	11.5	11.5	11.5	11.5	11.6	11.6	11.6	11.5	11.5	11.5	11.5	11.6	11.5	11.5	11.5	11.5	11.6	11.6
160	12.8	12.6	12.6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8	12.6	12.6	12.7	12.7	12.7	12.7
165	13.9	13.7	13.7	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.7	13.7	13.9	13.7	13.7	13.8	13.8	13.8	13.8
170	14.9	14.6	14.7	14.7	14.8	14.8	14.7	14.8	14.8	14.7	14.7	14.6	14.9	14.6	14.7	14.7	14.8	14.8	14.7
175	15.5	15.2	15.3	15.3	15.4	15.4	15.3	15.4	15.4	15.3	15.3	15.2	15.5	15.2	15.3	15.3	15.4	15.4	15.3
180	15.8	15.6	15.6	15.7	15.7	15.7	15.6	15.7	15.7	15.7	15.6	15.6	15.8	15.6	15.6	15.7	15.7	15.7	15.6

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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:230.5V I:0.6806A P:149.5W PF:0.9528 Freq:49.99Hz Lamp Flux:27001.6x1 lm		
NAME: H03DTC-15-R380-60-40G-R8	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ERVAN	SUR.:	Shielding Angle:

Table--2

UNIT: ×10cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	2802	2801	2801	2801	2801														
5	2792	2790	2789	2787	2786														
10	2753	2749	2746	2741	2737														
15	2653	2648	2642	2634	2628														
20	2438	2432	2426	2420	2417														
25	2025	2028	2031	2034	2035														
30	1398	1410	1426	1442	1451														
35	760	774	790	810	823														
40	344	351	363	371	379														
45	164	165	168	169	171														
50	92.8	93.0	93.9	94.2	95.5														
55	61.5	61.6	62.6	62.3	63.8														
60	45.6	45.4	46.7	45.7	47.3														
65	35.0	34.5	35.7	34.4	36.0														
70	25.9	25.1	26.2	24.8	26.4														
75	16.7	16.1	16.8	15.8	16.8														
80	8.14	7.92	8.23	7.88	8.24														
85	1.17	1.18	1.41	1.47	1.63														
90	0.18	0.18	0.18	0.18	0.18														
95	0.24	0.24	0.24	0.24	0.25														
100	0.36	0.36	0.37	0.37	0.38														
105	0.61	0.61	0.63	0.63	0.65														
110	1.06	1.07	1.09	1.09	1.11														
115	1.72	1.72	1.74	1.75	1.77														
120	2.54	2.54	2.56	2.57	2.58														
125	3.50	3.50	3.52	3.53	3.54														
130	4.63	4.63	4.65	4.66	4.66														
135	5.94	5.94	5.95	5.95	5.96														
140	7.37	7.36	7.38	7.38	7.38														
145	8.86	8.85	8.86	8.86	8.85														
150	10.3	10.3	10.3	10.3	10.2														
155	11.6	11.5	11.5	11.5	11.5														
160	12.7	12.7	12.7	12.6	12.6														
165	13.8	13.8	13.8	13.7	13.7														
170	14.8	14.8	14.7	14.7	14.6														
175	15.4	15.4	15.3	15.3	15.2														
180	15.7	15.7	15.7	15.6	15.6														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:QC  
Test Date:2020-04-07

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	28243	28010	28011	28013	28008	28020	28006	28020	28008	28013
3.0	28186	27957	27962	27971	27971	27986	27974	27986	27971	27971
6.0	28015	27795	27813	27837	27849	27871	27863	27871	27849	27837
9.0	27704	27506	27535	27580	27606	27641	27635	27641	27606	27580
12.0	27204	27032	27077	27140	27182	27228	27225	27228	27182	27140
15.0	26433	26281	26340	26420	26476	26533	26542	26533	26476	26420
18.0	25300	25170	25225	25302	25369	25432	25442	25432	25369	25302
21.0	23691	23567	23599	23642	23694	23736	23754	23736	23694	23642
24.0	21404	21286	21276	21272	21268	21269	21258	21269	21268	21272
27.0	18323	18211	18165	18087	18003	17938	17907	17938	18003	18087
30.0	14621	14512	14423	14261	14099	13979	13951	13979	14099	14261
33.0	10722	10621	10499	10301	10114	9967	9920	9967	10114	10301
36.0	7171	7125	7011	6849	6692	6550	6515	6550	6692	6849
39.0	4482	4436	4366	4275	4151	4079	4023	4079	4151	4275
42.0	2751	2714	2664	2610	2550	2491	2475	2491	2550	2610
45.0	1722	1712	1695	1681	1647	1635	1615	1635	1647	1681
48.0	1184	1178	1163	1156	1146	1141	1137	1141	1146	1156
51.0	874.7	869.7	856.5	854.8	846.1	845.3	841.6	845.3	846.1	854.8
54.0	687.0	683.8	669.8	670.9	661.5	660.9	656.8	660.9	661.5	670.9
57.0	562.5	562.0	547.5	552.0	540.5	540.5	535.0	540.5	540.5	552.0
60.0	468.3	473.2	457.2	467.2	454.0	456.1	449.6	456.1	454.0	467.2
63.0	392.7	402.1	385.4	397.9	384.8	388.3	381.6	388.3	384.8	397.9
66.0	327.0	340.3	324.2	337.5	325.9	331.7	326.4	331.7	325.9	337.5
69.0	267.5	282.6	266.9	280.4	269.2	277.2	273.1	277.2	269.2	280.4
72.0	209.6	225.3	210.6	224.0	213.4	222.2	219.0	222.2	213.4	224.0
75.0	156.5	168.3	158.2	167.8	160.6	167.3	164.7	167.3	160.6	167.8
78.0	107.9	114.2	109.1	114.4	110.7	113.8	112.4	113.8	110.7	114.4
81.0	65.21	68.09	65.02	67.41	64.49	66.26	65.39	66.26	64.49	67.41
84.0	28.38	29.28	26.89	26.30	23.74	24.23	23.96	24.23	23.74	26.30
87.0	3.080	3.073	2.995	2.881	2.732	2.644	2.579	2.644	2.732	2.881
90.0	1.719	1.782	1.765	1.777	1.756	1.778	1.749	1.778	1.756	1.777
93.0	2.015	2.175	2.108	2.116	2.088	2.112	2.067	2.112	2.088	2.116
96.0	2.422	2.647	2.607	2.610	2.556	2.580	2.538	2.580	2.556	2.610
99.0	3.041	3.430	3.368	3.360	3.277	3.282	3.228	3.282	3.228	3.360
102.0	3.971	4.646	4.550	4.519	4.407	4.404	4.335	4.404	4.407	4.519
105.0	5.486	6.463	6.329	6.283	6.125	6.119	6.020	6.119	6.125	6.283
108.0	7.708	8.998	8.840	8.785	8.581	8.567	8.451	8.567	8.581	8.785
111.0	10.74	12.28	12.11	12.04	11.84	11.81	11.68	11.81	11.68	12.04
114.0	14.60	16.23	16.07	16.00	15.78	15.75	15.62	15.75	15.62	16.00
117.0	19.22	20.76	20.60	20.53	20.32	20.29	20.18	20.29	20.32	20.53
120.0	24.48	25.79	25.66	25.56	25.38	25.36	25.26	25.36	25.38	25.56
123.0	30.32	31.35	31.23	31.15	30.96	30.95	30.85	30.95	30.96	31.15
126.0	36.76	37.47	37.38	37.29	37.14	37.11	37.05	37.11	37.14	37.29
129.0	43.74	44.24	44.16	44.07	43.92	43.88	43.82	43.88	43.92	44.07
132.0	51.31	51.64	51.55	51.50	51.34	51.30	51.23	51.30	51.34	51.50
135.0	59.35	59.61	59.53	59.52	59.37	59.37	59.28	59.37	59.37	59.52
138.0	67.84	68.04	67.98	68.01	67.83	67.89	67.77	67.89	67.83	68.01
141.0	76.60	76.75	76.69	76.77	76.59	76.69	76.53	76.69	76.59	76.77
144.0	85.52	85.62	85.64	85.67	85.54	85.65	85.61	85.65	85.54	85.67
147.0	94.34	94.17	94.30	94.33	94.29	94.38	94.49	94.38	94.29	94.33
150.0	102.9	102.5	102.6	102.7	102.8	102.9	102.8	102.9	102.8	102.7
153.0	110.8	110.0	110.2	110.5	110.7	110.8	110.7	110.8	110.7	110.5
156.0	118.1	117.0	117.3	117.7	117.9	118.1	117.9	118.1	117.9	117.7
159.0	125.2	123.7	124.1	124.5	124.8	125.0	124.9	125.0	124.8	124.5
162.0	132.2	130.2	131.2	131.2	131.5	131.7	131.6	131.7	131.5	131.2
165.0	138.9	136.7	137.1	137.7	137.9	138.2	138.0	138.2	137.9	137.7
168.0	145.4	142.8	143.1	143.8	144.1	144.2	143.9	144.2	143.8	143.1
171.0	150.3	147.6	148.0	148.5	149.0	149.0	148.9	149.0	148.5	147.6
174.0	154.0	151.5	151.9	152.4	152.8	152.8	152.6	152.8	152.4	151.9
177.0	156.3	154.0	154.4	154.8	155.1	155.2	154.9	155.2	154.8	154.4
180.0	158.1	155.7	156.1	156.5	156.8	156.9	156.3	156.9	156.8	156.5
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	28011	28010	28243	28010	28011	28013	28008	28020	28006	28020
3.0	27962	27957	28186	27957	27962	27971	27971	27986	27974	27986
6.0	27813	27795	28015	27795	27813	27837	27849	27871	27863	27871
9.0	27535	27506	27704	27506	27535	27580	27606	27641	27635	27641
12.0	27077	27032	27204	27032	27077	27140	27182	27228	27225	27228
15.0	26340	26281	26433	26281	26340	26420	26476	26533	26542	26533
18.0	25225	25170	25300	25170	25225	25302	25369	25432	25442	25432
21.0	23599	23567	23691	23567	23599	23642	23694	23736	23754	23736
24.0	21276	21286	21404	21286	21276	21272	21268	21269	21258	21269
27.0	18165	18211	18323	18211	18165	18087	18003	17938	17907	17938
30.0	14423	14512	14621	14512	14423	14261	14099	13979	13951	13979

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: QC  
Test Date: 2020-04-07

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	10499	10621	10722	10621	10499	10301	10114	9967	9920	9967
36.0	7011	7125	7171	7125	7011	6849	6692	6550	6515	6550
39.0	4366	4436	4482	4436	4366	4275	4151	4079	4023	4079
42.0	2664	2714	2751	2714	2664	2610	2550	2491	2475	2491
45.0	1695	1712	1722	1712	1695	1681	1647	1635	1615	1635
48.0	1163	1178	1184	1178	1163	1156	1146	1141	1137	1141
51.0	856.5	869.7	874.7	869.7	856.5	854.8	846.1	845.3	841.6	845.3
54.0	669.8	683.8	687.0	683.8	669.8	670.9	661.5	660.9	656.8	660.9
57.0	547.5	562.0	562.5	562.0	547.5	552.0	540.5	540.5	535.0	540.5
60.0	457.2	473.2	468.3	473.2	457.2	467.2	454.0	456.1	449.6	456.1
63.0	385.4	402.1	392.7	402.1	385.4	397.9	384.8	388.3	381.6	388.3
66.0	324.2	340.3	327.0	340.3	324.2	337.5	325.9	331.7	326.4	331.7
69.0	266.9	282.6	267.5	282.6	266.9	280.4	269.2	277.2	273.1	277.2
72.0	210.6	225.3	209.6	225.3	210.6	224.0	213.4	222.2	219.0	222.2
75.0	158.2	168.3	156.5	168.3	158.2	167.8	160.6	167.3	164.7	167.3
78.0	109.1	114.2	107.9	114.2	109.1	114.4	110.7	113.8	112.4	113.8
81.0	65.02	68.09	65.21	68.09	65.02	67.41	64.49	66.26	65.39	66.26
84.0	26.89	29.28	28.38	29.28	26.89	26.30	23.74	24.23	23.96	24.23
87.0	2.995	3.073	3.080	3.073	2.995	2.881	2.732	2.644	2.579	2.644
90.0	1.765	1.782	1.719	1.782	1.765	1.777	1.756	1.778	1.749	1.778
93.0	2.108	2.175	2.015	2.175	2.108	2.116	2.088	2.112	2.067	2.112
96.0	2.607	2.647	2.422	2.647	2.607	2.610	2.556	2.580	2.538	2.580
99.0	3.368	3.430	3.041	3.430	3.368	3.360	3.277	3.282	3.228	3.282
102.0	4.550	4.646	3.971	4.646	4.550	4.519	4.407	4.404	4.335	4.404
105.0	6.329	6.463	5.486	6.463	6.329	6.283	6.125	6.119	6.020	6.119
108.0	8.840	8.998	7.708	8.998	8.840	8.785	8.581	8.567	8.451	8.567
111.0	12.11	12.28	10.74	12.28	12.11	12.04	11.84	11.81	11.68	11.81
114.0	16.07	16.23	14.60	16.23	16.07	16.00	15.78	15.75	15.62	15.75
117.0	20.60	20.76	19.22	20.76	20.60	20.53	20.32	20.29	20.18	20.29
120.0	25.66	25.79	24.48	25.79	25.66	25.56	25.38	25.36	25.26	25.36
123.0	31.23	31.35	30.32	31.35	31.23	31.15	30.96	30.95	30.85	30.95
126.0	37.38	37.47	36.76	37.47	37.38	37.29	37.14	37.11	37.05	37.11
129.0	44.16	44.24	43.74	44.24	44.16	44.07	43.92	43.88	43.82	43.88
132.0	51.55	51.64	51.31	51.64	51.55	51.50	51.34	51.30	51.23	51.30
135.0	59.53	59.61	59.35	59.61	59.53	59.52	59.37	59.37	59.28	59.37
138.0	67.98	68.04	67.84	68.04	67.98	68.01	67.83	67.89	67.77	67.89
141.0	76.69	76.75	76.60	76.75	76.69	76.77	76.59	76.69	76.53	76.69
144.0	85.64	85.62	85.52	85.62	85.64	85.67	85.54	85.65	85.61	85.65
147.0	94.30	94.17	94.34	94.17	94.30	94.33	94.29	94.38	94.49	94.38
150.0	102.6	102.5	102.9	102.5	102.6	102.7	102.8	102.9	102.8	102.9
153.0	110.2	110.0	110.8	110.0	110.2	110.5	110.7	110.8	110.7	110.8
156.0	117.3	117.0	118.1	117.0	117.3	117.7	117.9	118.1	117.9	118.1
159.0	124.1	123.7	125.2	123.7	124.1	124.5	124.8	125.0	124.9	125.0
162.0	130.7	130.2	132.2	130.2	130.7	131.2	131.5	131.7	131.6	131.7
165.0	137.1	136.7	138.9	136.7	137.1	137.7	137.9	138.2	138.0	138.2
168.0	143.1	142.8	145.4	142.8	143.1	143.8	144.1	144.2	143.9	144.2
171.0	148.0	147.6	150.3	147.6	148.0	148.5	149.0	149.0	148.9	149.0
174.0	151.9	151.5	154.0	151.5	151.9	152.4	152.8	152.8	152.6	152.8
177.0	154.4	154.0	156.3	154.0	154.4	154.8	155.1	155.2	154.9	155.2
180.0	156.1	155.7	158.1	155.7	156.1	156.5	156.8	156.9	156.3	156.9
G/C	300.0	315.0	330.0	345.0						
0.0	28008	28013	28011	28010						
3.0	27971	27971	27962	27957						
6.0	27849	27837	27813	27795						
9.0	27606	27580	27535	27506						
12.0	27182	27140	27077	27032						
15.0	26476	26420	26340	26281						
18.0	25369	25302	25225	25170						
21.0	23694	23642	23599	23567						
24.0	21268	21272	21276	21286						
27.0	18003	18087	18165	18211						
30.0	14099	14261	14423	14512						
33.0	10114	10301	10499	10621						
36.0	6692	6849	7011	7125						
39.0	4151	4275	4366	4436						
42.0	2550	2610	2664	2714						
45.0	1647	1681	1695	1712						
48.0	1146	1156	1163	1178						
51.0	846.1	854.8	856.5	869.7						
54.0	661.5	670.9	669.8	683.8						
57.0	540.5	552.0	547.5	562.0						
60.0	454.0	467.2	457.2	473.2						
63.0	384.8	397.9	385.4	402.1						
66.0	325.9	337.5	324.2	340.3						

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-07

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	269.2	280.4	266.9	282.6
72.0	213.4	224.0	210.6	225.3
75.0	160.6	167.8	158.2	168.3
78.0	110.7	114.4	109.1	114.2
81.0	64.49	67.41	65.02	68.09
84.0	23.74	26.30	26.89	29.28
87.0	2.732	2.881	2.995	3.073
90.0	1.756	1.777	1.765	1.782
93.0	2.088	2.116	2.108	2.175
96.0	2.556	2.610	2.607	2.647
99.0	3.277	3.360	3.368	3.430
102.0	4.407	4.519	4.550	4.646
105.0	6.125	6.283	6.329	6.463
108.0	8.581	8.785	8.840	8.998
111.0	11.84	12.04	12.11	12.28
114.0	15.78	16.00	16.07	16.23
117.0	20.32	20.53	20.60	20.76
120.0	25.38	25.56	25.66	25.79
123.0	30.96	31.15	31.23	31.35
126.0	37.14	37.29	37.38	37.47
129.0	43.92	44.07	44.16	44.24
132.0	51.34	51.50	51.55	51.64
135.0	59.37	59.52	59.53	59.61
138.0	67.83	68.01	67.98	68.04
141.0	76.59	76.77	76.69	76.75
144.0	85.54	85.67	85.64	85.62
147.0	94.29	94.33	94.30	94.17
150.0	102.8	102.7	102.6	102.5
153.0	110.7	110.5	110.2	110.0
156.0	117.9	117.7	117.3	117.0
159.0	124.8	124.5	124.1	123.7
162.0	131.5	131.2	130.7	130.2
165.0	137.9	137.7	137.1	136.7
168.0	144.1	143.8	143.1	142.8
171.0	149.0	148.5	148.0	147.6
174.0	152.8	152.4	151.9	151.5
177.0	155.1	154.8	154.4	154.0
180.0	156.8	156.5	156.1	155.7

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: QC  
 Test Date: 2020-04-07

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: