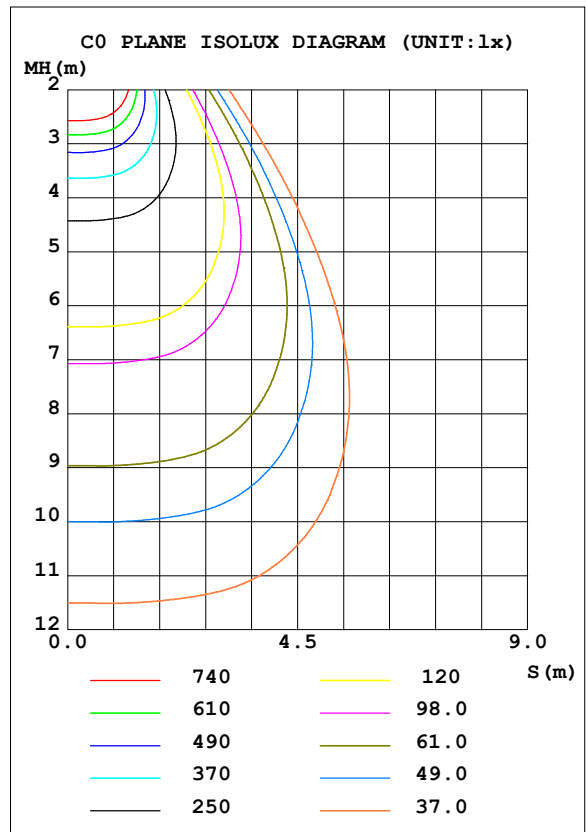
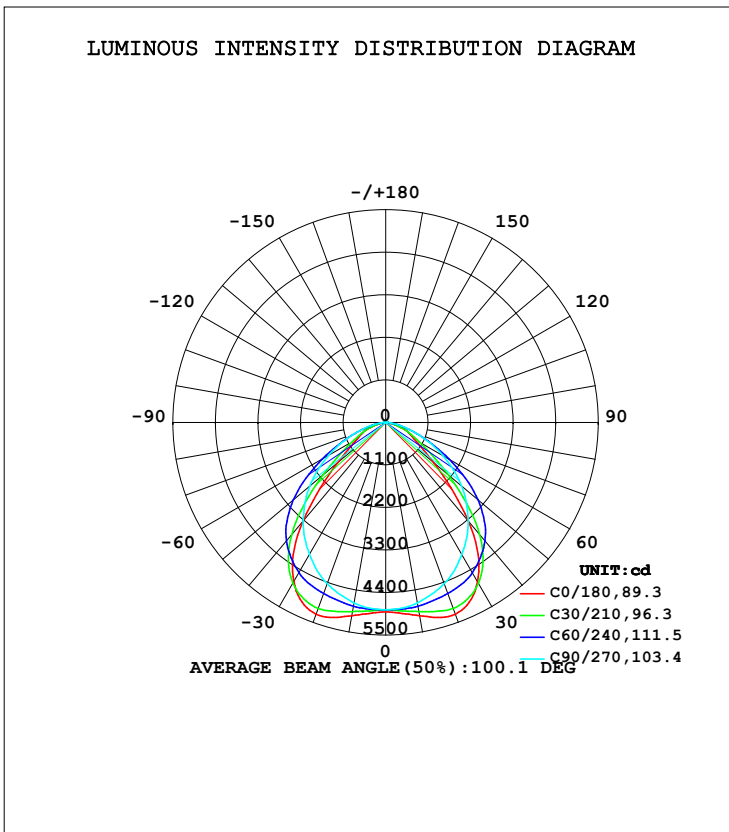


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 157.42 lm/W			
MODEL		I _{max} (cd)	5278	S/MH (C0/180)	1.27
NOMINAL POWER (W)	80	LOR (%)	100.0	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	12334	η UP, DN (C0-180)	0.5, 49.5
NOMINAL FLUX (lm)	12334.1	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.5, 49.5
LAMPS INSIDE	1	η up (%)	0.9	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	230	η down (%)	99.1	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-05-29

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:

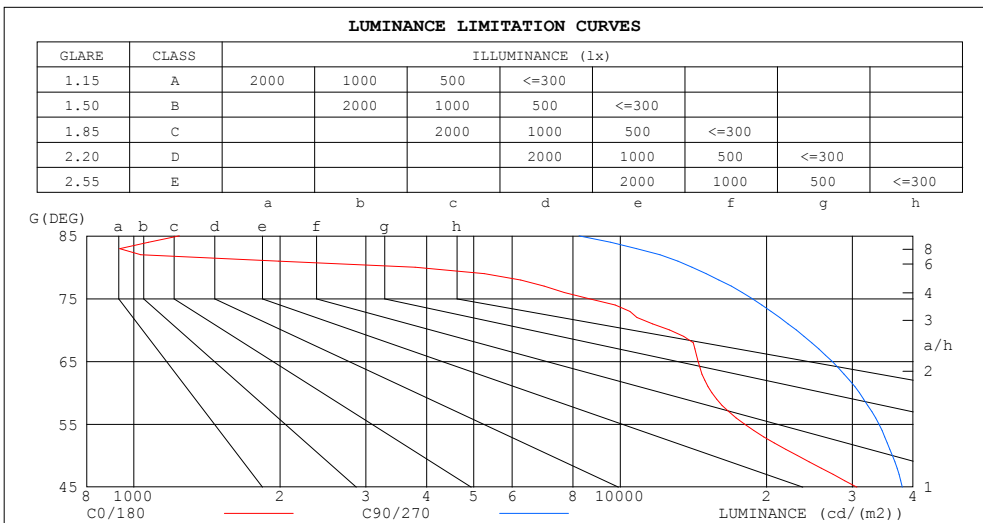
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	5073	4898	4738	4898	5073	4898	4738	4898	0- 10	465.7	465.7	3.78,3.78
20	5273	4929	4433	4929	5273	4929	4433	4929	10- 20	1390	1856	15,15
30	4749	4752	3940	4752	4749	4752	3940	4752	20- 30	2197	4052	32.9,32.9
40	3327	4039	3320	4039	3327	4039	3320	4039	30- 40	2608	6660	54,54
50	1635	2730	2565	2730	1635	2730	2565	2730	40- 50	2371	9032	73.2,73.2
60	849.1	1386	1708	1386	849.1	1386	1708	1386	50- 60	1692	10723	86.9,86.9
70	475.3	621.0	866.0	621.0	475.3	621.0	866.0	621.0	60- 70	1014	11737	95.2,95.2
80	72.41	128.2	268.6	128.2	72.41	128.2	268.6	128.2	70- 80	428.3	12166	98.6,98.6
90	2.685	4.318	5.065	4.318	2.685	4.318	5.065	4.318	80- 90	54.40	12220	99.1,99.1
100	5.043	7.251	8.382	7.251	5.043	7.251	8.382	7.251	90-100	5.765	12226	99.1,99.1
110	9.250	11.62	12.98	11.62	9.250	11.62	12.98	11.62	100-110	9.622	12236	99.2,99.2
120	14.71	16.63	18.01	16.63	14.71	16.63	18.01	16.63	110-120	13.72	12249	99.3,99.3
130	20.84	21.68	23.24	21.68	20.84	21.68	23.24	21.68	120-130	17.08	12266	99.5,99.5
140	26.18	26.91	28.27	26.91	26.18	26.91	28.27	26.91	130-140	18.82	12285	99.6,99.6
150	30.71	32.08	33.05	32.08	30.71	32.08	33.05	32.08	140-150	18.43	12304	99.8,99.8
160	35.68	36.76	37.06	36.76	35.68	36.76	37.06	36.76	150-160	15.77	12319	99.9,99.9
170	40.79	40.23	39.51	40.23	40.79	40.23	39.51	40.23	160-170	10.83	12330	100,100
180	43.30	42.11	41.01	42.11	43.30	42.11	41.01	42.11	170-180	3.903	12334	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:

LUMINANCE LIMITATION CURVES

Test:U:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1241	8229
80	3791	14061
75	8620	18686
70	12633	23019
65	14457	27295
60	15438	31054
55	18005	34060
50	23128	36281
45	30682	38015

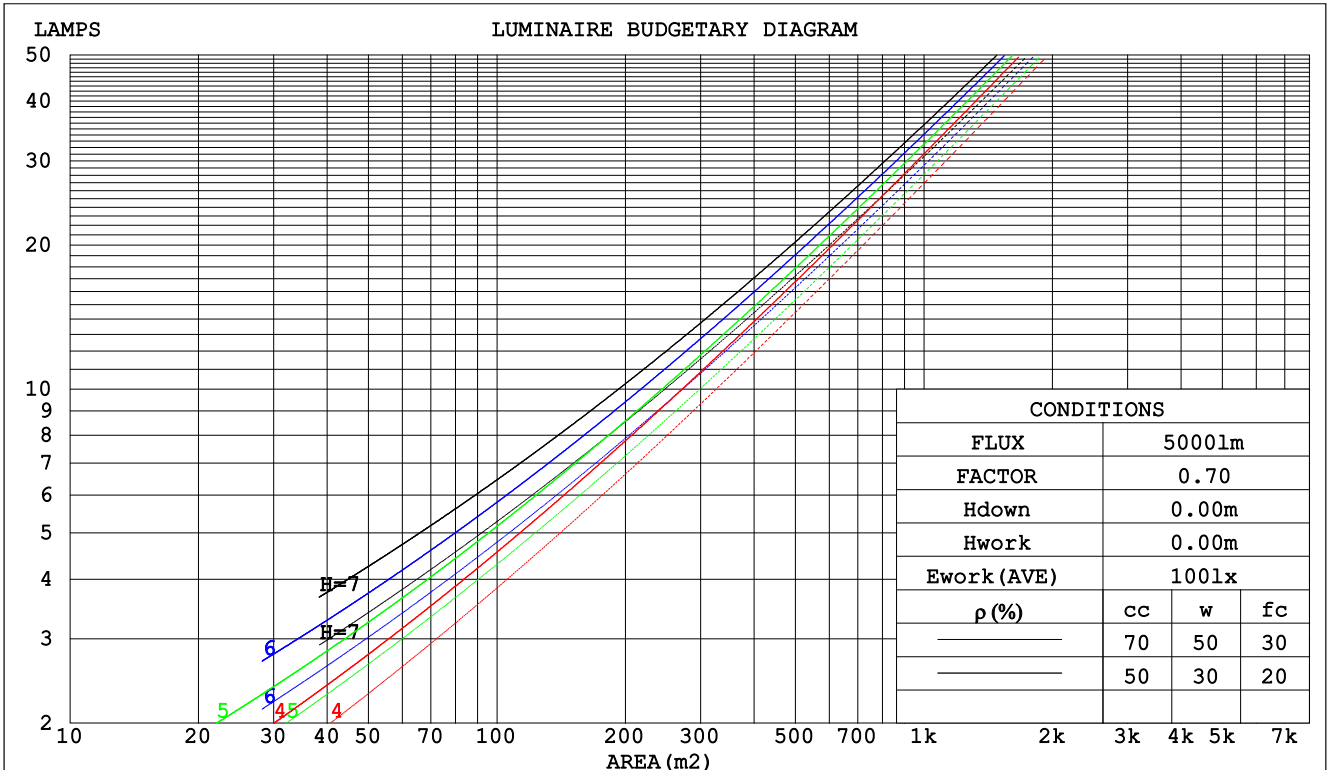
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.94	.88	.83	.92	.87	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.71	.82	.75	.70	.79	.73	.69	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.74	.66	.60	.71	.65	.59	.69	.63	.59	.66	.62	.58	.56
5.0	.67	.59	.53	.66	.59	.53	.64	.57	.52	.62	.56	.51	.60	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.50	.46	.55	.49	.45	.43
7.0	.56	.47	.42	.55	.47	.41	.53	.46	.41	.52	.45	.41	.50	.45	.40	.38
8.0	.51	.43	.37	.50	.43	.37	.49	.42	.37	.48	.41	.37	.46	.41	.36	.35
9.0	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.43	.37	.33	.31
10.0	.43	.36	.31	.43	.35	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	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	.263	.149	.047	.255	.146	.046	.242	.139	.044	.229	.132	.042	.218	.126	.041	
2.0	.255	.140	.043	.248	.137	.042	.236	.131	.041	.225	.126	.040	.215	.122	.038	
3.0	.241	.128	.038	.235	.126	.038	.225	.122	.037	.215	.118	.036	.206	.114	.035	
4.0	.226	.117	.034	.221	.115	.034	.211	.112	.033	.203	.109	.033	.195	.106	.032	
5.0	.211	.108	.031	.207	.106	.031	.199	.103	.030	.191	.101	.030	.184	.098	.030	
6.0	.198	.099	.028	.194	.098	.028	.187	.096	.028	.180	.094	.027	.174	.091	.027	
7.0	.186	.092	.026	.182	.091	.026	.176	.089	.026	.170	.087	.025	.164	.085	.025	
8.0	.175	.085	.024	.172	.085	.024	.166	.083	.024	.160	.081	.023	.155	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.147	.075	.022	
10.0	.156	.075	.021	.153	.074	.021	.149	.073	.020	.144	.072	.020	.140	.070	.020	

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	.184	.164	.145	.158	.140	.125	.108	.097	.086	.062	.056	.050	.020	.018	.016	
2.0	.174	.139	.110	.149	.120	.095	.102	.083	.066	.059	.048	.039	.019	.016	.013	
3.0	.166	.121	.086	.142	.105	.074	.098	.073	.052	.056	.042	.031	.018	.014	.010	
4.0	.158	.108	.069	.136	.093	.060	.093	.065	.042	.054	.038	.025	.017	.012	.008	
5.0	.151	.097	.057	.130	.084	.050	.089	.059	.035	.052	.034	.021	.017	.011	.007	
6.0	.144	.089	.049	.124	.077	.042	.086	.054	.030	.050	.032	.018	.016	.010	.006	
7.0	.138	.082	.042	.119	.071	.037	.082	.050	.026	.048	.029	.016	.015	.010	.005	
8.0	.132	.076	.037	.113	.066	.033	.079	.046	.023	.046	.027	.014	.015	.009	.005	
9.0	.126	.071	.034	.109	.062	.029	.075	.043	.021	.044	.026	.012	.014	.008	.004	
10.0	.121	.067	.031	.104	.058	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm										
NAME: H20B-80W					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: EVRAN					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	14.0	15.4	14.3	15.6	15.8	16.9	18.3	17.2	18.5	18.7
3H	14.5	15.8	14.8	16.0	16.3	17.9	19.2	18.2	19.4	19.7
4H	14.6	15.8	14.9	16.1	16.4	18.2	19.4	18.5	19.7	19.9
6H	14.6	15.7	14.9	16.0	16.3	18.3	19.5	18.7	19.7	20.0
8H	14.6	15.6	14.9	15.9	16.2	18.3	19.4	18.7	19.7	20.0
12H	14.5	15.6	14.9	15.9	16.2	18.3	19.4	18.7	19.7	20.0
4H 2H	14.6	15.8	14.9	16.1	16.4	17.0	18.2	17.3	18.5	18.8
3H	15.2	16.3	15.6	16.6	16.9	18.2	19.3	18.6	19.6	19.9
4H	15.4	16.3	15.8	16.7	17.0	18.6	19.6	19.0	19.9	20.2
6H	15.4	16.2	15.8	16.6	17.0	18.9	19.7	19.3	20.1	20.4
8H	15.4	16.1	15.8	16.5	16.9	18.9	19.7	19.3	20.1	20.5
12H	15.3	16.0	15.8	16.4	16.8	18.9	19.6	19.3	20.0	20.4
8H 4H	15.6	16.3	16.0	16.7	17.1	18.6	19.4	19.0	19.7	20.1
6H	15.6	16.2	16.1	16.7	17.1	18.9	19.5	19.4	20.0	20.4
8H	15.6	16.1	16.0	16.6	17.0	19.0	19.5	19.5	20.0	20.5
12H	15.5	16.0	16.0	16.5	17.0	19.0	19.5	19.5	20.0	20.4
12H 4H	15.6	16.3	16.0	16.7	17.1	18.6	19.3	19.0	19.7	20.1
6H	15.6	16.2	16.1	16.6	17.1	18.9	19.4	19.3	19.9	20.3
8H	15.6	16.1	16.1	16.5	17.0	19.0	19.4	19.4	19.9	20.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.9 / - 1.2					+ 0.5 / - 0.6				
1.5H	+ 0.5 / - 1.1					+ 0.6 / - 1.0				
2.0H	+ 1.3 / - 1.6					+ 0.5 / - 0.9				

CIE Pub.117, 12334 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.7)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

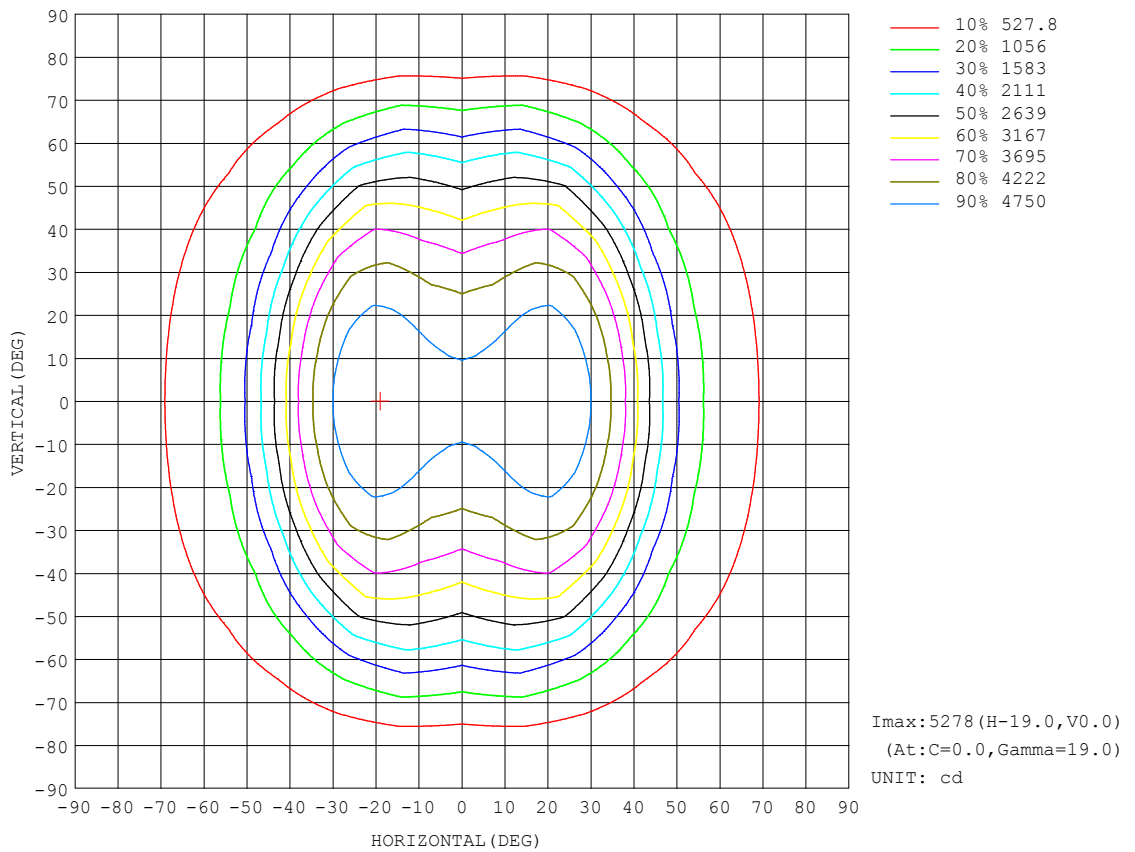
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	52	46	62	52	46	61	51	45	39
0.80	73	62	56	72	62	56	70	61	55	49
1.00	81	71	65	80	71	65	78	72	64	58
1.25	88	79	73	87	78	72	84	77	71	65
1.50	93	84	78	91	83	78	88	81	76	69
2.00	99	91	86	97	90	85	94	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	98	93	99	95	91	83
4.00	108	103	100	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	103	101	98	89
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:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

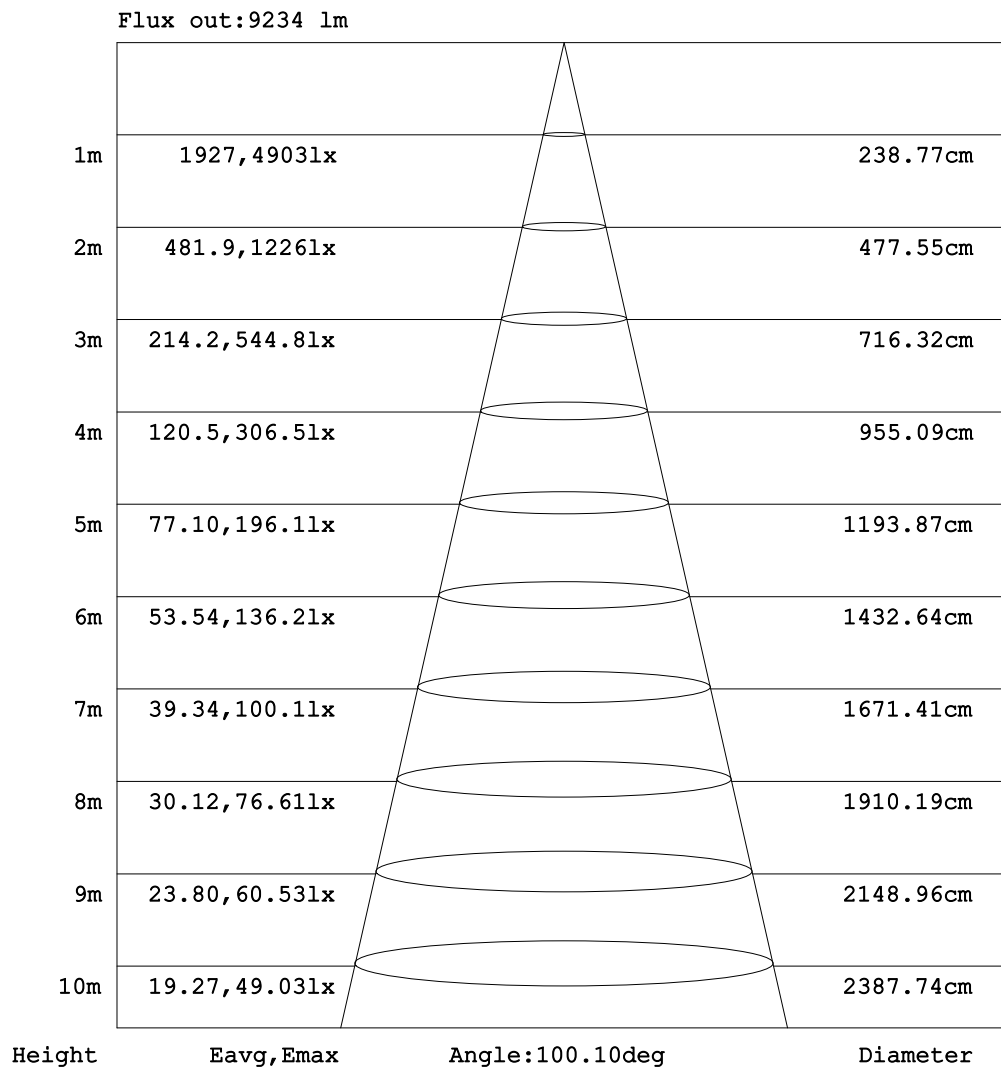


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



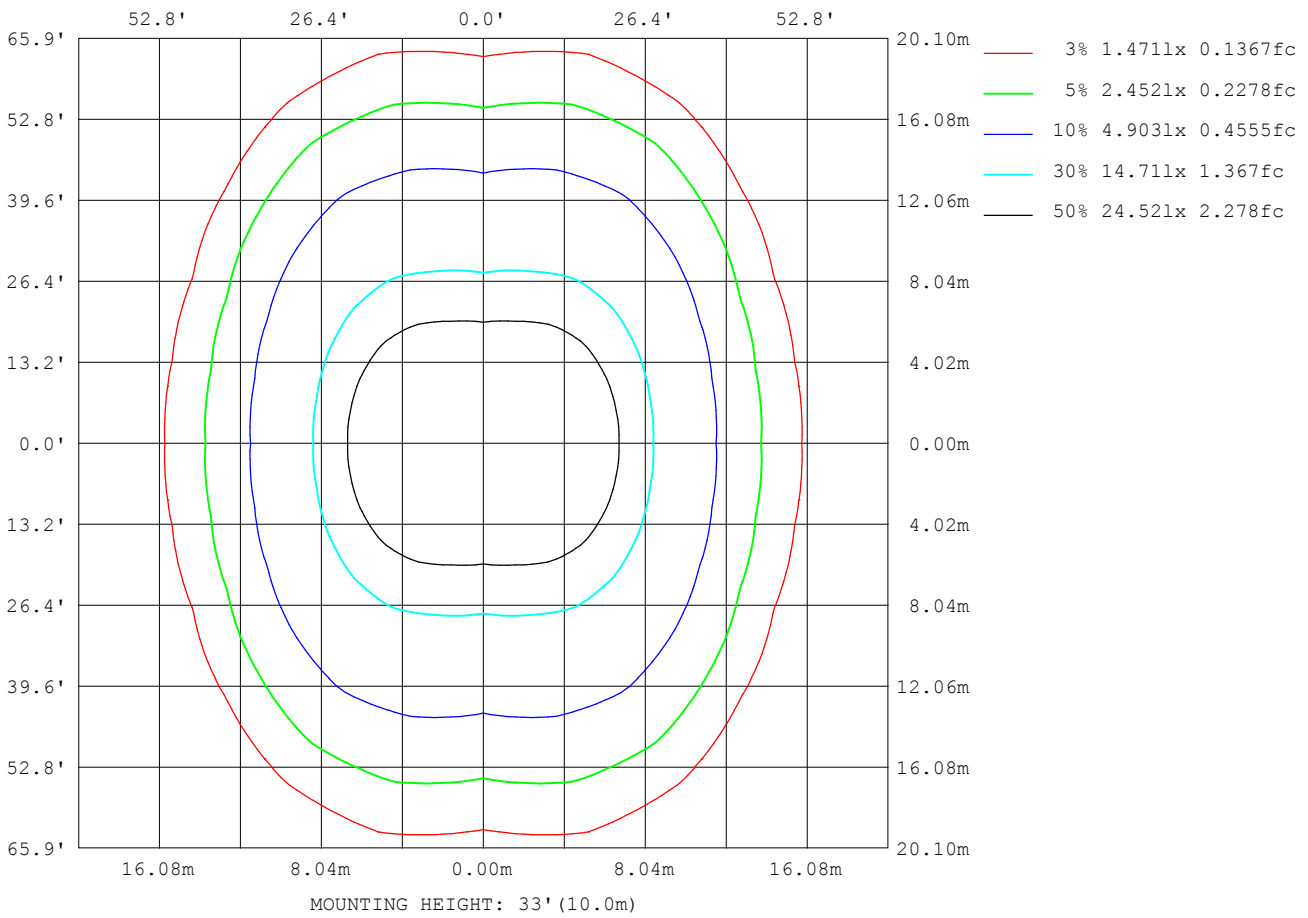
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

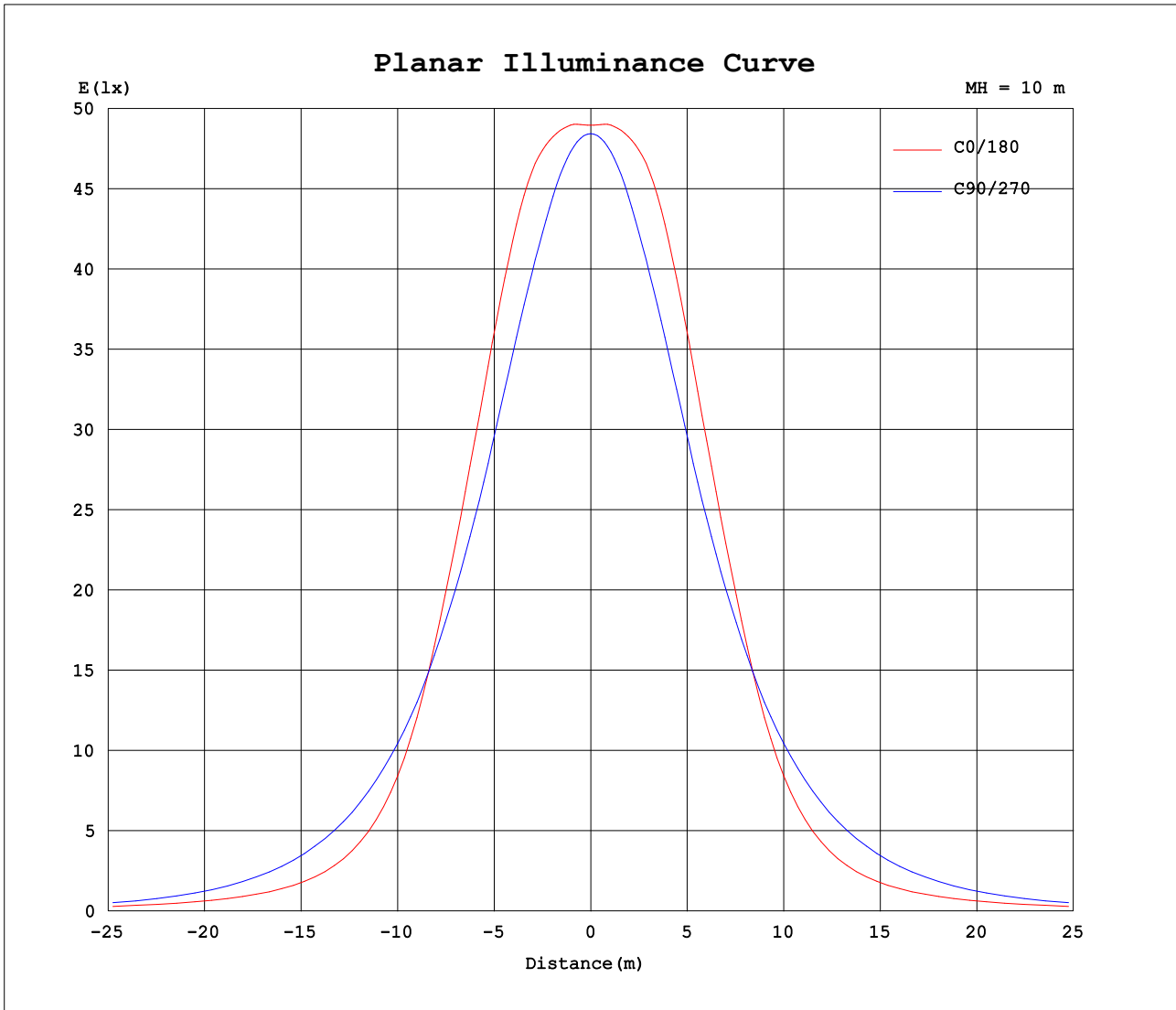
AvgL	cd/m2
L_0~180 (65) av	14457
L_0~180 (75) av	8620
L_0~180 (85) av	1241
L_90~270 (65) av	27295
L_90~270 (75) av	18686
L_90~270 (85) av	8229
L_45 (65) av	20191
L_45 (75) av	13009
L_45 (85) av	1070

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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: 2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	4896	4854	4847	4844	4842	4842	4843	4842	4842	4844	4847	4854	4896	4854	4847	4844	4842	4842	4843
5	4959	4912	4891	4866	4843	4825	4819	4825	4843	4866	4891	4912	4959	4912	4891	4866	4843	4825	4819
10	5073	5015	4965	4898	4828	4764	4738	4764	4828	4898	4965	5015	5073	5015	4965	4898	4828	4764	4738
15	5221	5149	5057	4917	4767	4651	4599	4651	4767	4917	5057	5149	5221	5149	5057	4917	4767	4651	4599
20	5273	5211	5117	4929	4706	4519	4433	4519	4706	4929	5117	5211	5273	5211	5117	4929	4706	4519	4433
25	5127	5093	5029	4897	4624	4347	4219	4347	4624	4897	5029	5093	5127	5093	5029	4897	4624	4347	4219
30	4749	4766	4798	4752	4488	4114	3940	4114	4488	4752	4798	4766	4749	4766	4798	4752	4488	4114	3940
35	4171	4238	4388	4481	4270	3871	3652	3871	4270	4481	4388	4238	4171	4238	4388	4481	4270	3871	3652
40	3327	3461	3781	4039	3996	3590	3320	3590	3996	4039	3781	3461	3327	3461	3781	4039	3996	3590	3320
45	2387	2535	2966	3453	3613	3253	2957	3253	3613	3453	2966	2535	2387	2535	2966	3453	3613	3253	2957
50	1635	1748	2127	2730	3122	2892	2565	2892	3122	2730	2127	1748	1635	1748	2127	2730	3122	2892	2565
55	1136	1200	1449	2001	2519	2467	2149	2467	2519	2001	1449	1200	1136	1200	1449	2001	2519	2467	2149
60	849	873	999	1386	1891	1989	1708	1989	1891	1386	999	873	849	873	999	1386	1891	1989	1708
65	672	669	712	939	1316	1485	1269	1485	1316	939	712	669	672	669	712	939	1316	1485	1269
70	475	477	505	621	858	1006	866	1006	858	621	505	477	475	477	505	621	858	1006	866
75	245	246	258	370	516	602	532	602	516	370	258	246	245	246	258	370	516	602	532
80	72.4	74.9	90.7	128	247	294	269	294	247	128	90.7	74.9	72.4	74.9	90.7	128	247	294	269
85	11.9	11.6	11.0	10.3	35.0	81.6	78.9	81.6	35.0	10.3	11.0	11.6	11.9	11.6	11.0	10.3	35.0	81.6	78.9
90	2.69	2.93	3.56	4.32	5.29	5.31	5.06	5.31	5.29	4.32	3.56	2.93	2.69	2.93	3.56	4.32	5.29	5.31	5.06
95	3.46	3.77	4.46	5.38	6.16	6.44	6.48	6.44	6.16	5.38	4.46	3.77	3.46	3.77	4.46	5.38	6.16	6.44	6.48
100	5.04	5.43	6.26	7.25	8.03	8.29	8.38	8.29	8.03	7.25	6.26	5.43	5.04	5.43	6.26	7.25	8.03	8.29	8.38
105	7.00	7.44	8.34	9.33	10.1	10.4	10.6	10.4	10.1	9.33	8.34	7.44	7.00	7.44	8.34	9.33	10.1	10.4	10.6
110	9.25	9.73	10.6	11.6	12.4	12.7	13.0	12.7	12.4	11.6	10.6	9.73	9.25	9.73	10.6	11.6	12.4	12.7	13.0
115	11.8	12.3	13.1	14.1	14.8	15.1	15.5	15.1	14.8	14.1	13.1	12.3	11.8	12.3	13.1	14.1	14.8	15.1	15.5
120	14.7	15.0	15.8	16.6	17.2	17.5	18.0	17.5	17.2	16.6	15.8	15.0	14.7	15.0	15.8	16.6	17.2	17.5	18.0
125	17.8	17.9	18.5	19.1	19.7	20.1	20.6	20.1	19.7	19.1	18.5	17.9	17.8	17.9	18.5	19.1	19.7	20.1	20.6
130	20.8	20.8	21.2	21.7	22.3	22.6	23.2	22.6	22.3	21.7	21.2	20.8	20.8	20.8	21.2	21.7	22.3	22.6	23.2
135	23.7	23.5	23.8	24.3	24.9	25.2	25.8	25.2	24.9	24.3	23.8	23.5	23.7	23.5	23.8	24.3	24.9	25.2	25.8
140	26.2	26.0	26.3	26.9	27.4	27.8	28.3	27.8	27.4	26.9	26.3	26.0	26.2	26.0	26.3	26.9	27.4	27.8	28.3
145	28.4	28.4	28.9	29.6	29.9	30.3	30.8	30.3	29.9	29.6	28.9	28.4	28.4	28.4	28.9	29.6	29.9	30.3	30.8
150	30.7	30.8	31.4	32.1	32.4	32.8	33.1	32.8	32.4	32.1	31.4	30.8	30.7	30.8	31.4	32.1	32.4	32.8	33.1
155	33.1	33.1	33.8	34.4	34.8	35.0	35.2	35.0	34.8	34.4	33.8	33.1	33.1	33.1	33.8	34.4	34.8	35.0	35.2
160	35.7	35.6	36.2	36.8	37.0	37.0	37.1	37.0	37.0	36.8	36.2	35.6	35.7	35.6	36.2	36.8	37.0	37.0	37.1
165	38.3	38.0	38.3	38.8	38.7	38.5	38.5	38.5	38.7	38.8	38.3	38.0	38.3	38.0	38.3	38.8	38.7	38.5	38.5
170	40.8	40.2	40.1	40.2	40.0	39.6	39.5	39.6	40.0	40.2	40.1	40.2	40.8	40.2	40.1	40.2	40.0	39.6	39.5
175	42.7	41.9	41.4	41.5	41.0	40.5	40.5	40.5	41.0	41.5	41.4	41.9	42.7	41.9	41.4	41.5	41.0	40.5	40.5
180	43.3	42.6	42.0	42.1	41.5	41.0	41.0	41.0	41.5	42.1	42.0	42.6	43.3	42.6	42.0	42.1	41.5	41.0	41.0

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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:231.7V I:0.3481A P:78.35W PF:0.9715 Freq:49.99Hz Lamp Flux:12334.1x1 lm		
NAME: H20B-80W	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVRAN	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	4842	4842	4844	4847	4854														
5	4825	4843	4866	4891	4912														
10	4764	4828	4898	4965	5015														
15	4651	4767	4917	5057	5149														
20	4519	4706	4929	5117	5211														
25	4347	4624	4897	5029	5093														
30	4114	4488	4752	4798	4766														
35	3871	4270	4481	4388	4238														
40	3590	3996	4039	3781	3461														
45	3253	3613	3453	2966	2535														
50	2892	3122	2730	2127	1748														
55	2467	2519	2001	1449	1200														
60	1989	1891	1386	999	873														
65	1485	1316	939	712	669														
70	1006	858	621	505	477														
75	602	516	370	258	246														
80	294	247	128	90.7	74.9														
85	81.6	35.0	10.3	11.0	11.6														
90	5.31	5.29	4.32	3.56	2.93														
95	6.44	6.16	5.38	4.46	3.77														
100	8.29	8.03	7.25	6.26	5.43														
105	10.4	10.1	9.33	8.34	7.44														
110	12.7	12.4	11.6	10.6	9.73														
115	15.1	14.8	14.1	13.1	12.3														
120	17.5	17.2	16.6	15.8	15.0														
125	20.1	19.7	19.1	18.5	17.9														
130	22.6	22.3	21.7	21.2	20.8														
135	25.2	24.9	24.3	23.8	23.5														
140	27.8	27.4	26.9	26.3	26.0														
145	30.3	29.9	29.6	28.9	28.4														
150	32.8	32.4	32.1	31.4	30.8														
155	35.0	34.8	34.4	33.8	33.1														
160	37.0	37.0	36.8	36.2	35.6														
165	38.5	38.7	38.8	38.3	38.0														
170	39.6	40.0	40.2	40.1	40.2														
175	40.5	41.0	41.5	41.4	41.9														
180	41.0	41.5	42.1	42.0	42.6														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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	4896	4854	4847	4844	4842	4842	4843	4842	4842	4844
3.0	4922	4877	4864	4852	4843	4836	4835	4836	4843	4852
6.0	4977	4928	4905	4874	4842	4817	4808	4817	4842	4874
9.0	5048	4991	4948	4892	4834	4780	4761	4780	4834	4892
12.0	5132	5067	5000	4908	4807	4718	4682	4718	4807	4908
15.0	5221	5149	5057	4917	4767	4651	4599	4651	4767	4917
18.0	5275	5207	5107	4923	4733	4578	4505	4578	4733	4923
21.0	5260	5202	5112	4930	4692	4488	4394	4488	4692	4930
24.0	5174	5130	5057	4912	4643	4385	4267	4385	4643	4912
27.0	5007	4989	4958	4852	4581	4262	4110	4262	4581	4852
30.0	4749	4766	4798	4752	4488	4114	3940	4114	4488	4752
33.0	4430	4473	4577	4609	4359	3972	3771	3972	4359	4609
36.0	4024	4106	4283	4404	4221	3819	3590	3819	4221	4404
39.0	3514	3637	3921	4137	4057	3652	3393	3652	4057	4137
42.0	2942	3089	3476	3823	3861	3453	3172	3453	3861	3823
45.0	2387	2535	2966	3453	3613	3253	2957	3253	3613	3453
48.0	1908	2041	2446	3030	3329	3045	2731	3045	3329	3030
51.0	1515	1618	1978	2577	3011	2807	2481	2807	3011	2577
54.0	1216	1289	1568	2139	2650	2553	2234	2553	2650	2139
57.0	1002	1048	1242	1737	2265	2285	1971	2285	2265	1737
60.0	849.1	873.4	998.8	1386	1891	1989	1708	1989	1891	1386
63.0	735.9	742.4	813.3	1098	1532	1689	1440	1689	1532	1098
66.0	642.3	635.5	667.3	866.6	1214	1387	1183	1387	1214	866.6
69.0	532.7	535.8	543.5	676.4	939.8	1098	941.6	1098	939.8	676.4
72.0	368.2	360.1	402.1	517.9	708.5	832.7	723.5	832.7	708.5	517.9
75.0	245.4	246.4	258.2	370.4	515.8	602.0	532.0	602.0	515.8	370.4
78.0	142.8	138.7	141.8	208.9	352.3	408.0	364.7	408.0	352.3	208.9
81.0	34.17	41.79	60.80	94.65	191.0	244.2	226.0	244.2	191.0	94.65
84.0	12.34	11.97	11.23	17.42	63.62	119.6	110.0	119.6	63.62	17.42
87.0	9.675	9.562	9.397	9.200	8.463	22.23	30.24	22.23	8.463	9.200
90.0	2.685	2.928	3.564	4.318	5.295	5.313	5.065	5.313	5.295	4.318
93.0	2.973	3.255	3.861	4.716	5.476	5.768	5.804	5.768	5.476	4.716
96.0	3.747	4.064	4.785	5.734	6.510	6.790	6.835	6.790	6.510	5.734
99.0	4.695	5.062	5.870	6.853	7.638	7.894	7.894	7.894	7.638	6.853
102.0	5.793	6.196	7.067	8.069	8.843	9.104	9.232	9.104	8.843	8.069
105.0	6.995	7.438	8.344	9.328	10.14	10.39	10.58	10.39	10.14	9.328
108.0	8.320	8.795	9.690	10.68	11.50	11.78	12.00	11.78	11.50	10.68
111.0	9.737	10.23	11.10	12.10	12.90	13.19	13.46	13.19	12.90	12.10
114.0	11.30	11.76	12.61	13.59	14.29	14.60	14.96	14.60	14.29	13.59
117.0	12.97	13.38	14.17	15.11	15.73	16.06	16.47	16.06	15.73	15.11
120.0	14.71	15.05	15.78	16.63	17.19	17.53	18.01	17.53	17.19	16.63
123.0	16.53	16.77	17.41	18.13	18.69	19.04	19.57	19.04	18.69	18.13
126.0	18.38	18.52	19.04	19.66	20.23	20.58	21.15	20.58	20.23	19.66
129.0	20.23	20.25	20.68	21.18	21.78	22.12	22.73	22.12	21.78	21.18
132.0	22.00	21.92	22.27	22.70	23.33	23.65	24.25	23.65	23.33	22.70
135.0	23.68	23.51	23.82	24.26	24.87	25.19	25.76	25.19	24.87	24.26
138.0	25.22	25.02	25.31	25.83	26.38	26.74	27.25	26.74	26.38	25.83
141.0	26.65	26.50	26.80	27.44	27.89	28.28	28.78	28.28	27.89	27.44
144.0	27.99	27.95	28.32	29.06	29.43	29.84	30.27	29.84	29.43	29.06
147.0	29.32	29.39	29.90	30.59	30.96	31.35	31.70	31.35	30.96	30.59
150.0	30.71	30.81	31.40	32.08	32.41	32.79	33.05	32.79	32.41	32.08
153.0	32.15	32.18	32.82	33.48	33.82	34.15	34.39	34.15	33.82	33.48
156.0	33.63	33.62	34.28	34.90	35.21	35.46	35.62	35.46	35.21	34.90
159.0	35.16	35.08	35.72	36.31	36.55	36.62	36.71	36.62	36.55	36.31
162.0	36.74	36.55	37.10	37.64	37.74	37.68	37.72	37.68	37.74	37.64
165.0	38.33	38.02	38.34	38.75	38.74	38.54	38.53	38.54	38.74	38.75
168.0	39.87	39.40	39.46	39.69	39.53	39.21	39.15	39.21	39.53	39.69
171.0	41.24	40.65	40.39	40.48	40.20	39.80	39.72	39.80	40.20	40.48
174.0	42.43	41.71	41.20	41.27	40.82	40.41	40.41	40.41	40.82	41.27
177.0	43.15	42.27	41.71	41.76	41.17	40.72	40.71	40.72	41.17	41.76
180.0	43.30	42.64	42.03	42.11	41.46	41.02	41.01	41.02	41.46	42.11
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	4847	4854	4896	4854	4847	4844	4842	4842	4843	4842
3.0	4864	4877	4922	4877	4864	4852	4843	4836	4835	4836
6.0	4905	4928	4977	4928	4905	4874	4842	4817	4808	4817
9.0	4948	4991	5048	4948	4991	4948	4834	4780	4761	4780
12.0	5000	5067	5132	5067	5000	4908	4807	4718	4682	4718
15.0	5057	5149	5221	5149	5057	4917	4767	4651	4599	4651
18.0	5107	5207	5275	5207	5107	4923	4733	4578	4505	4578
21.0	5112	5202	5260	5202	5112	4930	4692	4488	4394	4488
24.0	5057	5130	5174	5130	5057	4912	4643	4385	4267	4385
27.0	4958	4989	5007	4989	4958	4852	4581	4262	4110	4262
30.0	4798	4766	4749	4766	4798	4752	4488	4114	3940	4114

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

v Range: 0 - 180DEG
 v 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	4577	4473	4430	4473	4577	4609	4359	3972	3771	3972
36.0	4283	4106	4024	4106	4283	4404	4221	3819	3590	3819
39.0	3921	3637	3514	3637	3921	4137	4057	3652	3393	3652
42.0	3476	3089	2942	3089	3476	3823	3861	3453	3172	3453
45.0	2966	2535	2387	2535	2966	3453	3613	3253	2957	3253
48.0	2446	2041	1908	2041	2446	3030	3329	3045	2731	3045
51.0	1978	1618	1515	1618	1978	2577	3011	2807	2481	2807
54.0	1568	1289	1216	1289	1568	2139	2650	2553	2234	2553
57.0	1242	1048	1002	1048	1242	1737	2265	2285	1971	2285
60.0	998.8	873.4	849.1	873.4	998.8	1386	1891	1989	1708	1989
63.0	813.3	742.4	735.9	742.4	813.3	1098	1532	1689	1440	1689
66.0	667.3	635.5	642.3	635.5	667.3	866.6	1214	1387	1183	1387
69.0	543.5	535.8	532.7	535.8	543.5	676.4	939.8	1098	941.6	1098
72.0	402.1	360.1	368.2	360.1	402.1	517.9	708.5	832.7	723.5	832.7
75.0	258.2	246.4	245.4	246.4	258.2	370.4	515.8	602.0	532.0	602.0
78.0	141.8	138.7	142.8	138.7	141.8	208.9	352.3	408.0	364.7	408.0
81.0	60.80	41.79	34.17	41.79	60.80	94.65	191.0	244.2	226.0	244.2
84.0	11.23	11.97	12.34	11.97	11.23	17.42	63.62	119.6	110.0	119.6
87.0	9.397	9.562	9.675	9.562	9.397	9.200	8.463	22.23	30.24	22.23
90.0	3.564	2.928	2.685	2.928	3.564	4.318	5.295	5.313	5.065	5.313
93.0	3.861	3.255	2.973	3.255	3.861	4.716	5.476	5.768	5.804	5.768
96.0	4.785	4.064	3.747	4.064	4.785	5.734	6.510	6.790	6.835	6.790
99.0	5.870	5.062	4.695	5.062	5.870	6.853	7.638	7.894	7.981	7.894
102.0	7.067	6.196	5.793	6.196	7.067	8.069	8.843	9.104	9.232	9.104
105.0	8.344	7.438	6.995	7.438	8.344	9.328	10.14	10.39	10.39	10.39
108.0	9.690	8.795	8.320	8.795	9.690	10.68	11.50	11.78	12.00	11.78
111.0	11.10	10.23	9.737	10.23	11.10	12.10	12.90	13.19	13.46	13.19
114.0	12.61	11.76	11.30	11.76	12.61	13.59	14.29	14.60	14.96	14.60
117.0	14.17	13.38	12.97	13.38	14.17	15.11	15.73	16.06	16.47	16.06
120.0	15.78	15.05	14.71	15.05	15.78	16.63	17.19	17.53	18.01	17.53
123.0	17.41	16.77	16.53	16.77	17.41	18.13	18.69	19.04	19.57	19.04
126.0	19.04	18.52	18.38	18.52	19.04	19.66	20.23	20.58	21.15	20.58
129.0	20.68	20.25	20.23	20.25	20.68	21.18	21.78	22.12	22.73	22.12
132.0	22.27	21.92	22.00	21.92	22.27	22.70	23.33	23.65	24.25	23.65
135.0	23.82	23.51	23.68	23.51	23.82	24.26	24.87	25.19	25.76	25.19
138.0	25.31	25.02	25.22	25.02	25.31	25.83	26.38	26.74	27.25	26.74
141.0	26.80	26.50	26.65	26.50	26.80	27.44	27.89	28.28	28.78	28.28
144.0	28.32	27.95	27.99	27.95	28.32	29.06	29.43	29.84	30.27	29.84
147.0	29.90	29.39	29.32	29.39	29.90	30.59	30.96	31.35	31.70	31.35
150.0	31.40	30.81	30.71	30.81	31.40	32.08	32.41	32.79	33.05	32.79
153.0	32.82	32.18	32.15	32.18	32.82	33.48	33.82	34.15	34.39	34.15
156.0	34.28	33.62	33.63	33.62	34.28	34.90	35.21	35.46	35.62	35.46
159.0	35.72	35.08	35.16	35.08	35.72	36.31	36.55	36.62	36.71	36.62
162.0	37.10	36.55	36.74	36.55	37.10	37.64	37.74	37.68	37.72	37.68
165.0	38.34	38.02	38.33	38.02	38.34	38.75	38.74	38.54	38.53	38.54
168.0	39.46	39.40	39.87	39.40	39.46	39.69	39.53	39.21	39.15	39.21
171.0	40.39	40.65	41.24	40.65	40.39	40.48	40.20	39.80	39.72	39.80
174.0	41.20	41.71	42.43	41.71	41.20	41.27	40.82	40.41	40.41	40.41
177.0	41.71	42.27	43.15	42.27	41.71	41.76	41.17	40.72	40.71	40.72
180.0	42.03	42.64	43.30	42.64	42.03	42.11	41.46	41.02	41.01	41.02
G/C	300.0	315.0	330.0	345.0						
0.0	4842	4844	4847	4854						
3.0	4843	4852	4864	4877						
6.0	4842	4874	4905	4928						
9.0	4834	4892	4948	4991						
12.0	4807	4908	5000	5067						
15.0	4767	4917	5057	5149						
18.0	4733	4923	5107	5207						
21.0	4692	4930	5112	5202						
24.0	4643	4912	5057	5130						
27.0	4581	4852	4958	4989						
30.0	4488	4752	4798	4766						
33.0	4359	4609	4577	4473						
36.0	4221	4404	4283	4106						
39.0	4057	4137	3921	3637						
42.0	3861	3823	3476	3089						
45.0	3613	3453	2966	2535						
48.0	3329	3030	2446	2041						
51.0	3011	2577	1978	1618						
54.0	2650	2139	1568	1289						
57.0	2265	1737	1242	1048						
60.0	1891	1386	998.8	873.4						
63.0	1532	1098	813.3	742.4						
66.0	1214	866.6	667.3	635.5						

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: QC
 Test Date: 2019-05-29

v Range: 0 - 180DEG
 v 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	939.8	676.4	543.5	535.8
72.0	708.5	517.9	402.1	360.1
75.0	515.8	370.4	258.2	246.4
78.0	352.3	208.9	141.8	138.7
81.0	191.0	94.65	60.80	41.79
84.0	63.62	17.42	11.23	11.97
87.0	8.463	9.200	9.397	9.562
90.0	5.295	4.318	3.564	2.928
93.0	5.476	4.716	3.861	3.255
96.0	6.510	5.734	4.785	4.064
99.0	7.638	6.853	5.870	5.062
102.0	8.843	8.069	7.067	6.196
105.0	10.14	9.328	8.344	7.438
108.0	11.50	10.68	9.690	8.795
111.0	12.90	12.10	11.10	10.23
114.0	14.29	13.59	12.61	11.76
117.0	15.73	15.11	14.17	13.38
120.0	17.19	16.63	15.78	15.05
123.0	18.69	18.13	17.41	16.77
126.0	20.23	19.66	19.04	18.52
129.0	21.78	21.18	20.68	20.25
132.0	23.33	22.70	22.27	21.92
135.0	24.87	24.26	23.82	23.51
138.0	26.38	25.83	25.31	25.02
141.0	27.89	27.44	26.80	26.50
144.0	29.43	29.06	28.32	27.95
147.0	30.96	30.59	29.90	29.39
150.0	32.41	32.08	31.40	30.81
153.0	33.82	33.48	32.82	32.18
156.0	35.21	34.90	34.28	33.62
159.0	36.55	36.31	35.72	35.08
162.0	37.74	37.64	37.10	36.55
165.0	38.74	38.75	38.34	38.02
168.0	39.53	39.69	39.46	39.40
171.0	40.20	40.48	40.39	40.65
174.0	40.82	41.27	41.20	41.71
177.0	41.17	41.76	41.71	42.27
180.0	41.46	42.11	42.03	42.64

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC
 Test Date:2019-05-29

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: