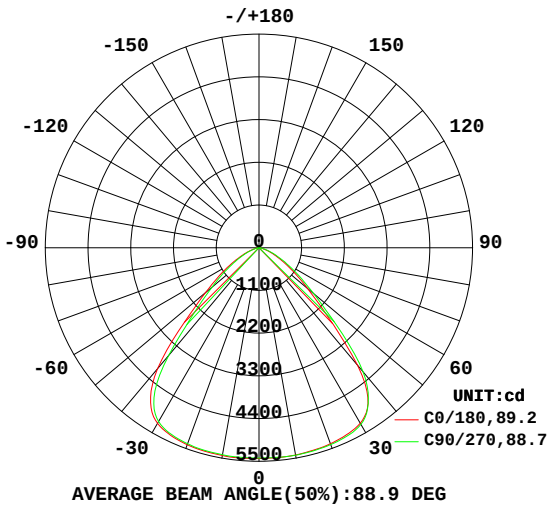
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

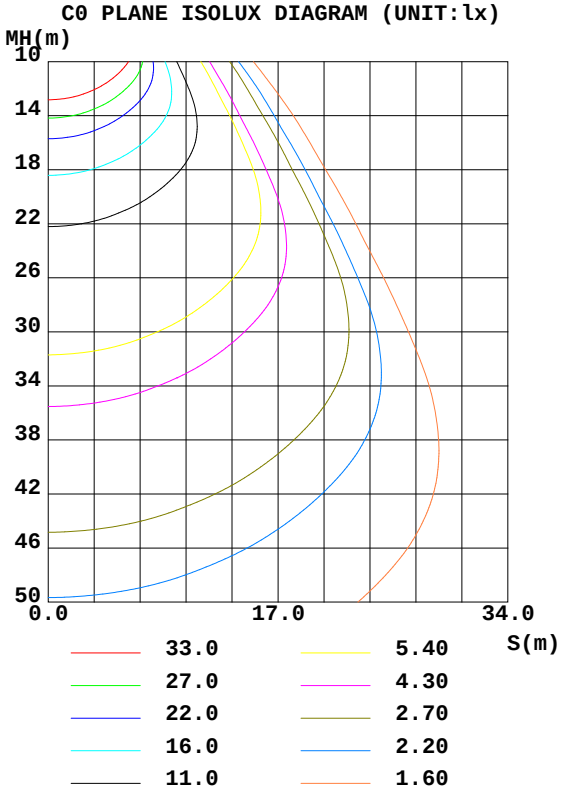
DATA OF LAMP		PHOTOMETRIC DATA Eff: 150.58 lm/W			
MODEL	HBL-80-90	Imax(cd)	5439	S/MH(C0/180)	1.30
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	11956	η UP,DN(C0-180)	0.6,50.4
NOMINAL FLUX(lm)	11956	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,48.5
LAMPS INSIDE	1	η up(%)	1.1	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	η down(%)	98.9	CIBSE SHR MAX	1.30

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):88.9 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5418	5418	5424	5424	5434	5423	5411	5404	0- 10	517.4	517.4	4.56,4.56
20	5372	5379	5395	5407	5397	5388	5372	5373	10- 20	1532	2049	18,18
30	5217	5245	5249	5249	5224	5185	5168	5192	20- 30	2462	4512	39.7,39.7
40	3954	4149	4170	4084	4066	3766	3609	3622	30- 40	2968	7480	65.9,65.9
50	1635	1761	1847	1815	1802	1628	1580	1545	40- 50	2041	9521	83.8,83.8
60	718.7	809.4	832.3	830.1	805.4	726.8	702.9	683.8	50- 60	1054	10575	93.1,93.1
70	251.8	291.7	309.9	318.1	293.3	262.5	249.7	243.3	60- 70	485.5	11060	97.4,97.4
80	45.39	57.52	65.20	67.98	59.45	49.15	44.39	42.83	70- 80	153.6	11214	98.7,98.7
90	2.881	2.562	2.495	2.394	1.110	1.261	1.304	1.375	80- 90	21.00	11235	98.9,98.9
100	6.713	6.114	5.846	5.750	2.786	3.108	3.246	3.295	90-100	3.366	11238	99,99
110	13.46	12.53	12.10	12.04	6.573	7.113	7.409	7.353	100-110	7.375	11246	99,99
120	22.29	21.00	20.41	20.49	12.77	13.43	13.84	13.55	110-120	13.26	11259	99.1,99.1
130	30.50	29.89	28.91	28.83	20.01	20.70	21.20	20.62	120-130	18.93	11278	99.3,99.3
140	36.86	36.70	36.64	35.79	26.80	26.96	27.36	27.33	130-140	22.07	11300	99.5,99.5
150	41.54	41.37	41.53	41.08	32.44	32.39	33.26	33.03	140-150	21.63	11321	99.7,99.7
160	45.98	45.73	45.73	45.45	36.19	36.46	37.43	37.46	150-160	18.07	11540	99.8,99.8
170	50.56	50.36	50.17	50.39	46.60	46.47	47.51	47.12	160-170	12.60	11752	100,100
180	53.22	53.64	53.06	52.41	53.54	52.75	52.72	52.83	170-180	4.822	11956	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 9134 lm

%lum = 76.4%
%lamp = 76.4%

Conical surface Flux(120deg): 11131 lm

%lum = 93.1%
%lamp = 93.1%

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Operators:007
Test Date:2016-08-19

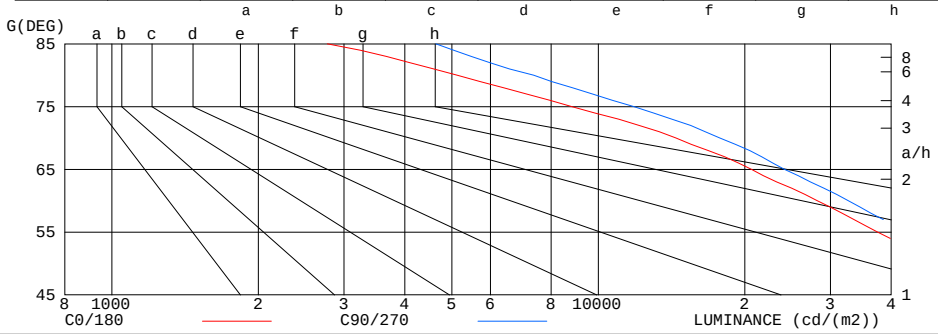
γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	2773	4634
80	5126	7362
75	8813	11821
70	14436	17765
65	20631	24119
60	28185	32638
55	37489	42933
50	49883	56327
45	69399	78537

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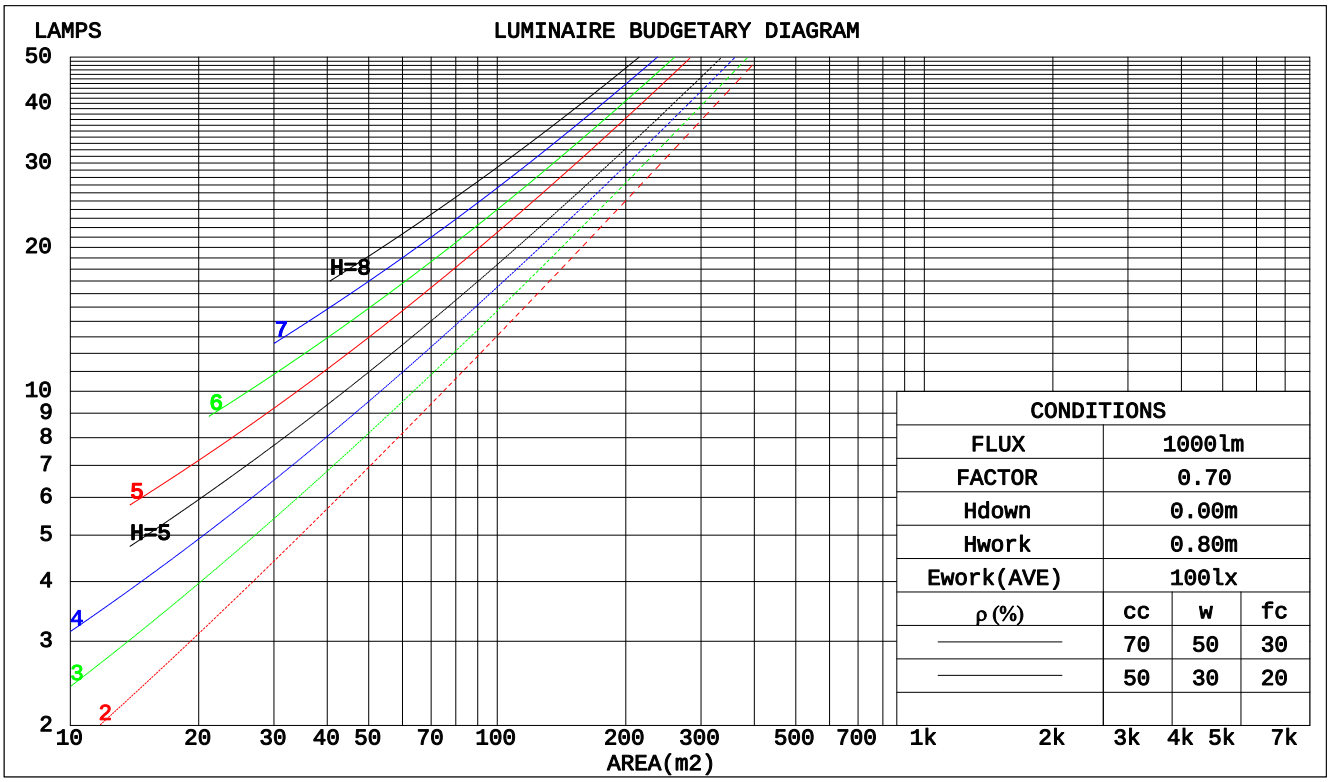
Remarks: HBL-80-90

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	1.08	1.05	1.02	1.05	1.03	.00	1.01	.99	.97	.97	.95	.93	.93	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.88	.85	.82	.85	.83	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.80	.76	.72	.78	.74	.71	.69
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.72	.65	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.65	.60	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.61	.56	.51	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.46	.55	.50	.46	.44
8.0	.56	.48	.43	.55	.48	.43	.54	.47	.42	.52	.46	.42	.51	.46	.42	.40
9.0	.51	.44	.39	.51	.44	.39	.50	.43	.39	.48	.43	.38	.47	.42	.38	.37
10.0	.48	.40	.36	.47	.40	.36	.46	.40	.35	.45	.39	.35	.44	.39	.35	.33



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C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
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Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

WEC AND CCEC

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NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.231	.131	.042	.224	.128	.041	.210	.121	.039	.198	.114	.037	.187	.108	.035	
2.0	.225	.123	.038	.219	.121	.037	.207	.115	.036	.197	.110	.035	.187	.106	.033	
3.0	.215	.114	.034	.210	.112	.034	.199	.108	.033	.190	.104	.032	.181	.100	.031	
4.0	.204	.106	.031	.199	.104	.031	.190	.101	.030	.182	.098	.029	.174	.095	.029	
5.0	.193	.098	.028	.189	.097	.028	.181	.094	.028	.173	.091	.027	.166	.089	.027	
6.0	.182	.091	.026	.179	.090	.026	.172	.088	.026	.165	.086	.025	.159	.083	.025	
7.0	.173	.085	.024	.169	.084	.024	.163	.082	.024	.157	.080	.023	.151	.079	.023	
8.0	.164	.080	.022	.161	.079	.022	.155	.077	.022	.149	.076	.022	.144	.074	.022	
9.0	.155	.075	.021	.152	.074	.021	.147	.073	.021	.142	.071	.020	.138	.070	.020	
10.0	.148	.071	.020	.145	.070	.020	.140	.069	.019	.136	.067	.019	.132	.066	.019	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.183	.165	.149	.157	.142	.128	.107	.097	.089	.062	.056	.052	.020	.018	.017	
2.0	.172	.141	.114	.147	.121	.099	.101	.084	.069	.058	.049	.040	.019	.016	.013	
3.0	.162	.122	.090	.139	.105	.078	.096	.073	.055	.055	.043	.032	.018	.014	.011	
4.0	.154	.108	.073	.132	.094	.064	.091	.065	.045	.053	.038	.027	.017	.012	.009	
5.0	.147	.098	.061	.126	.084	.053	.087	.059	.038	.050	.035	.022	.016	.011	.007	
6.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.016	.010	.006	
7.0	.134	.082	.045	.115	.071	.039	.080	.050	.028	.046	.029	.017	.015	.010	.006	
8.0	.128	.076	.040	.110	.066	.035	.076	.046	.025	.044	.027	.015	.014	.009	.005	
9.0	.123	.071	.036	.106	.062	.031	.073	.043	.022	.043	.026	.013	.014	.008	.004	
10.0	.118	.067	.033	.102	.058	.029	.071	.041	.020	.041	.024	.012	.013	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

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	16.6	17.9	16.9	18.1	18.3	17.0	18.3	17.3	18.5	18.7
3H	16.8	17.9	17.1	18.2	18.4	17.2	18.4	17.5	18.6	18.8
4H	16.8	17.8	17.1	18.1	18.4	17.2	18.3	17.5	18.6	18.8
6H	16.7	17.7	17.0	18.0	18.3	17.2	18.2	17.5	18.5	18.7
8H	16.6	17.6	17.0	17.9	18.2	17.1	18.1	17.5	18.4	18.7
12H	16.6	17.5	16.9	17.8	18.1	17.1	18.0	17.4	18.3	18.6
4H 2H	16.7	17.8	17.0	18.0	18.3	17.0	18.1	17.4	18.4	18.6
3H	16.9	17.8	17.3	18.2	18.5	17.3	18.3	17.7	18.6	18.9
4H	16.9	17.8	17.3	18.1	18.4	17.4	18.2	17.7	18.5	18.9
6H	16.9	17.6	17.3	18.0	18.4	17.3	18.1	17.7	18.4	18.8
8H	16.8	17.5	17.3	17.9	18.3	17.3	18.0	17.7	18.4	18.8
12H	16.8	17.4	17.2	17.8	18.2	17.3	17.9	17.7	18.3	18.7
8H 4H	16.9	17.5	17.3	17.9	18.3	17.3	18.0	17.7	18.3	18.7
6H	16.8	17.4	17.3	17.8	18.3	17.3	17.8	17.7	18.3	18.7
8H	16.8	17.3	17.3	17.7	18.2	17.3	17.7	17.7	18.2	18.7
12H	16.8	17.2	17.3	17.6	18.1	17.2	17.6	17.7	18.1	18.6
12H 4H	16.8	17.4	17.3	17.8	18.3	17.2	17.9	17.7	18.3	18.7
6H	16.8	17.3	17.3	17.7	18.2	17.2	17.7	17.7	18.2	18.6
8H	16.8	17.2	17.3	17.6	18.1	17.2	17.6	17.7	18.1	18.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.4 / - 2.3					+ 1.3 / - 1.9				
1.5H	+ 1.7 / - 1.4					+ 1.5 / - 1.4				
2.0H	+ 2.5 / - 2.2					+ 2.6 / - 2.2				

CIE Pub.117, 11357 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 8.4)

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Operators:007
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Humidity:65.0%
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Remarks: HBL-80-90

UTILIZATION FACTORS TABLE

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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) x RCR = 5									
k = 0.60	70	61	55	69	60	55	68	60	55	49
0.80	80	71	65	79	70	65	77	69	64	59
1.00	87	79	73	86	78	73	84	79	72	67
1.25	93	85	80	92	85	80	89	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	92	101	95	91	97	93	89	83
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	99	105	101	97	101	98	95	87
4.00	110	106	103	108	104	101	104	101	98	90
5.00	112	108	105	109	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
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ISOCANDELA DIAGRAM

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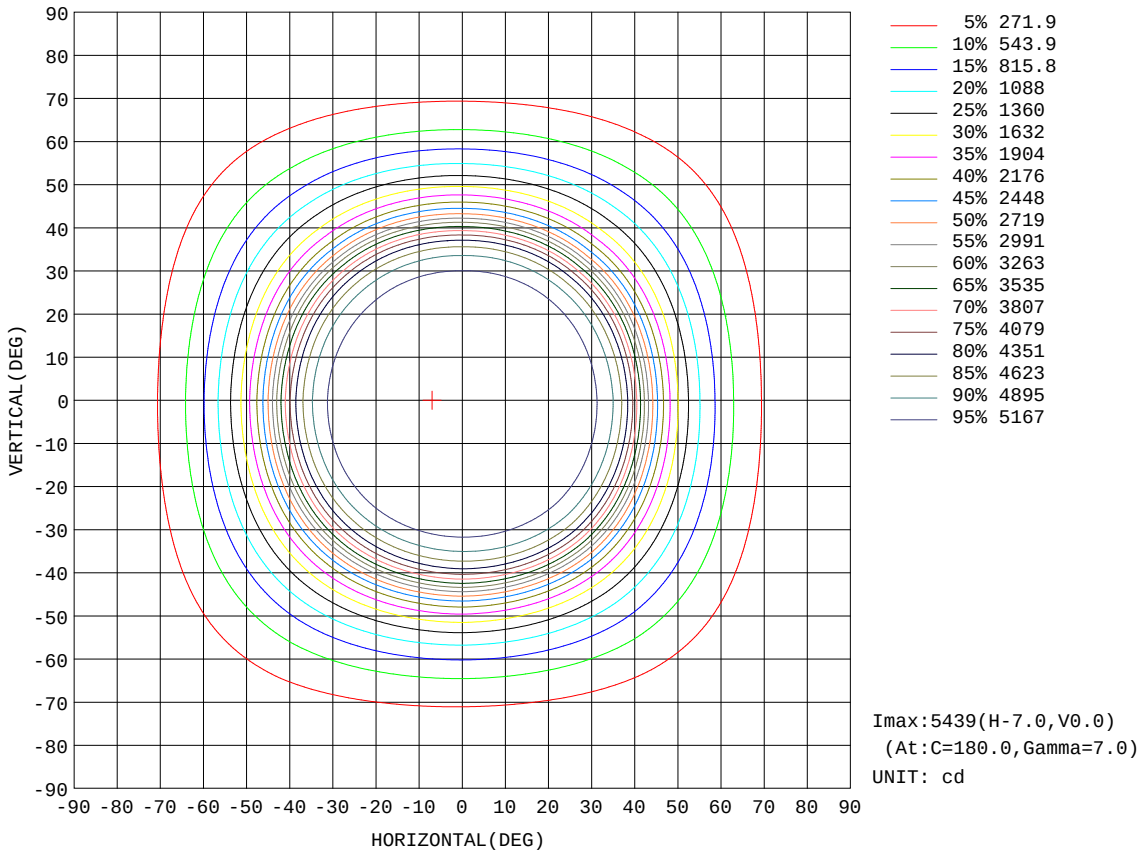

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AAI Figure

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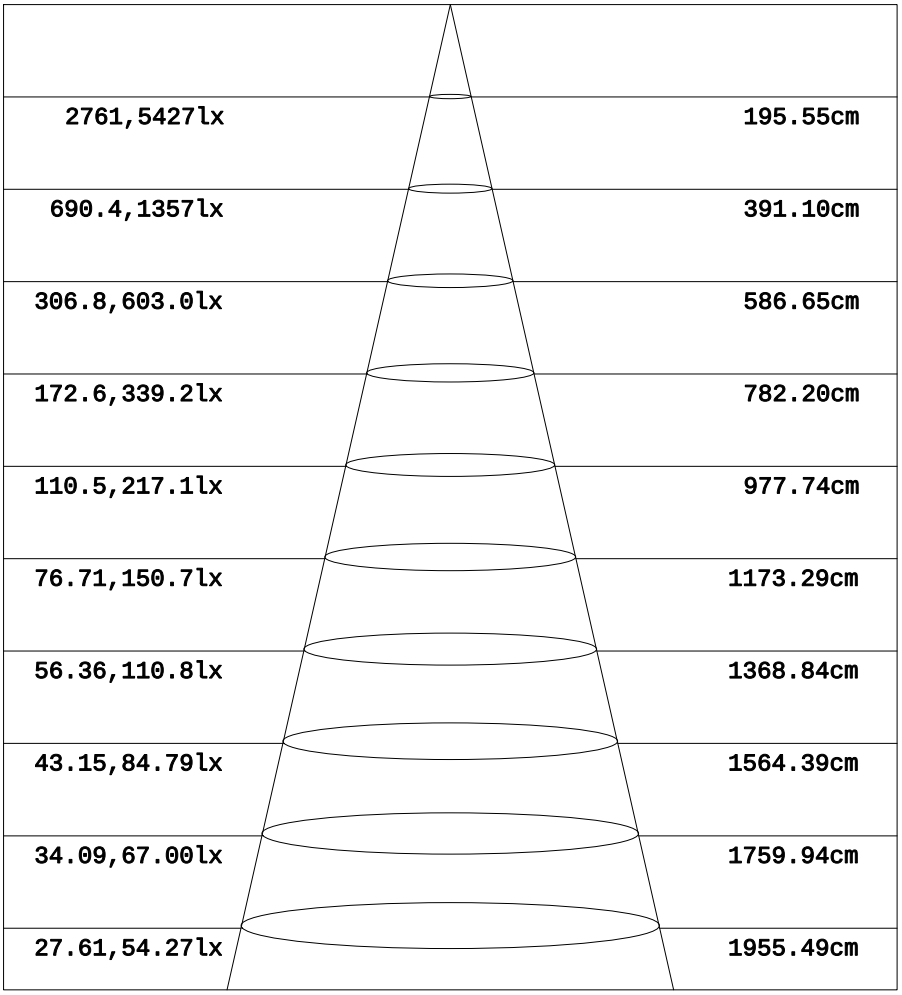
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Flux out:8675 lm



Height	Eavg,Emax	Angle:88.71deg	Diameter
1m	2761,5427lx		195.55cm
2m	690.4,1357lx		391.10cm
3m	306.8,603.0lx		586.65cm
4m	172.6,339.2lx		782.20cm
5m	110.5,217.1lx		977.74cm
6m	76.71,150.7lx		1173.29cm
7m	56.36,110.8lx		1368.84cm
8m	43.15,84.79lx		1564.39cm
9m	34.09,67.00lx		1759.94cm
10m	27.61,54.27lx		1955.49cm

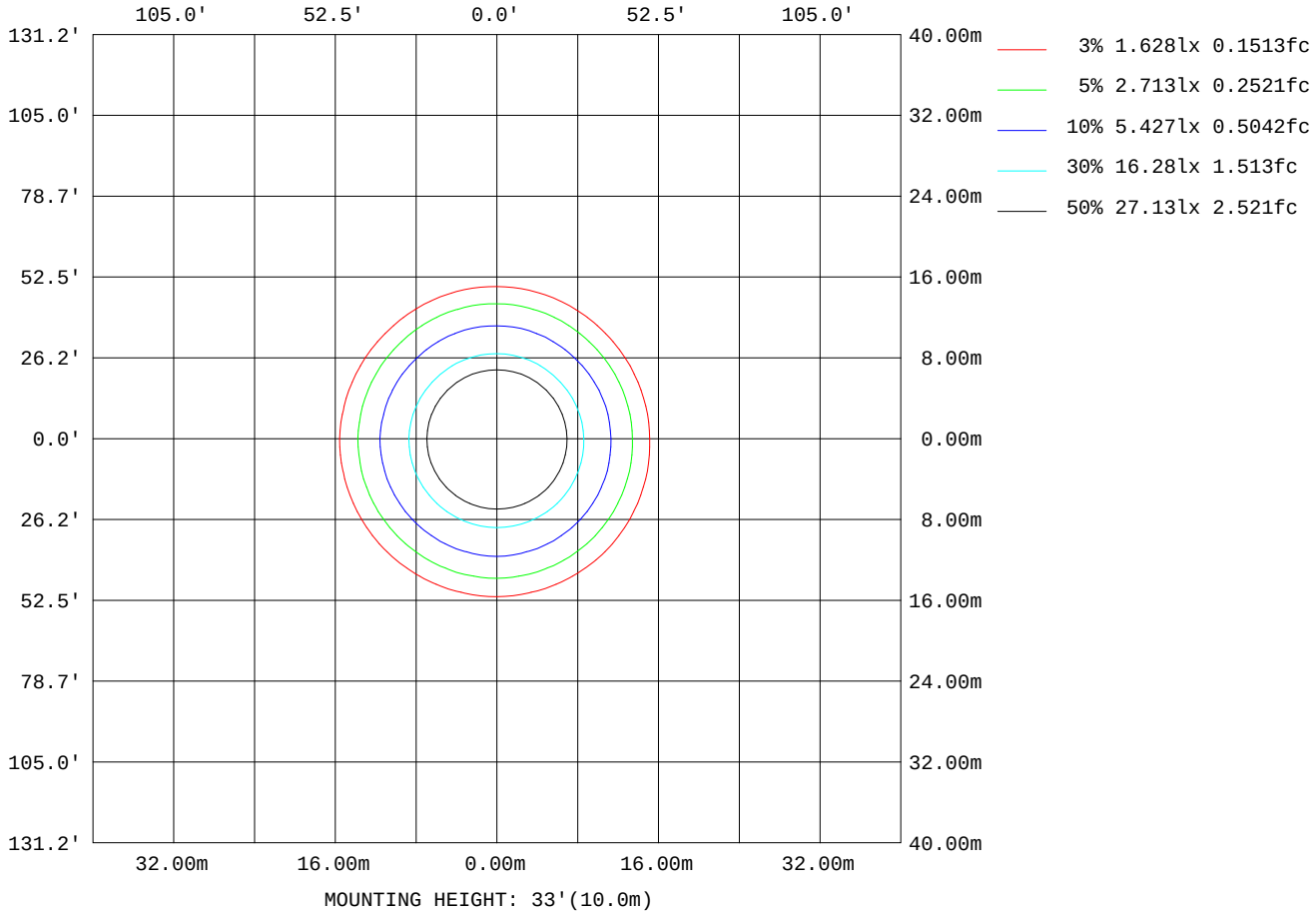
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

ISOLUX DIAGRAM

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

LED Avg.L Report

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

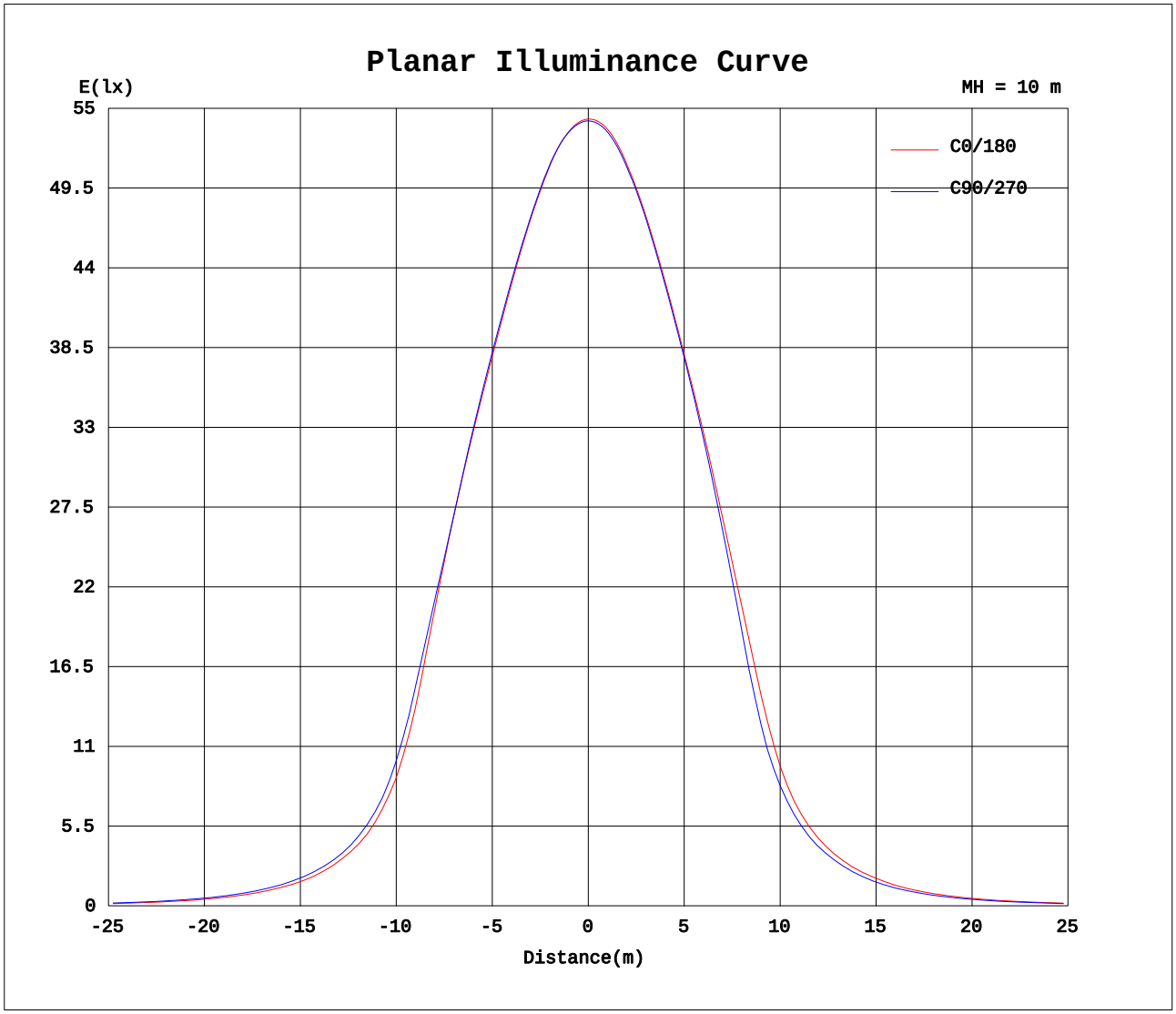
AvgL	cd/m2
L_0~180(65)av	21985
L_0~180(75)av	9972
L_0~180(85)av	3427
L_90~270(65)av	22242
L_90~270(75)av	10304
L_90~270(85)av	3561
L_45(65)av	22137
L_45(75)av	10329
L_45(85)av	3565

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:007
Test Date:2016-08-19

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:5.560m [K=1.0000]
Remarks: HBL-80-90

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.3680A P:79.40W PF:0.9800 Freq:50.00Hz Lamp Flux:11956x1 lm		
NAME:	TYPE:	WEIGHT:3.8KG
SPEC.:	DIM.: 260*260*170	SERIAL No.:
MFR.:	SUR.:0.1275*0.1275*3.14	Shielding Angle:120

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	45	90	135	180	225	270	315											
0	5427	5419	5414	5409	5427	5419	5414	5409											
5	5423	5417	5417	5417	5436	5427	5417	5408											
10	5418	5418	5424	5424	5434	5423	5411	5404											
15	5397	5399	5413	5416	5423	5413	5403	5394											
20	5372	5379	5395	5407	5397	5388	5372	5373											
25	5318	5336	5353	5368	5343	5328	5313	5319											
30	5217	5245	5249	5249	5224	5185	5168	5192											
35	4894	4947	4903	4877	4868	4761	4715	4757											
40	3954	4149	4170	4084	4066	3766	3609	3622											
45	2503	2719	2832	2758	2724	2423	2345	2310											
50	1635	1761	1847	1815	1802	1628	1580	1545											
55	1097	1204	1256	1243	1234	1122	1076	1049											
60	719	809	832	830	805	727	703	684											
65	445	501	520	528	503	454	439	426											
70	252	292	310	318	293	262	250	243											
75	116	143	156	165	147	126	116	112											
80	45.4	57.5	65.2	68.0	59.5	49.2	44.4	42.8											
85	12.3	17.4	20.6	22.2	18.1	13.5	11.1	10.3											
90	2.88	2.56	2.49	2.39	1.11	1.26	1.30	1.37											
95	4.45	3.98	3.85	3.72	1.77	1.99	2.07	2.13											
100	6.71	6.11	5.85	5.75	2.79	3.11	3.25	3.30											
105	9.72	8.97	8.64	8.55	4.33	4.79	5.01	5.01											
110	13.5	12.5	12.1	12.0	6.57	7.11	7.41	7.35											
115	17.9	16.6	16.1	16.2	9.43	10.0	10.4	10.2											
120	22.3	21.0	20.4	20.5	12.8	13.4	13.8	13.6											
125	26.4	25.4	24.7	24.9	16.4	17.2	17.5	17.1											
130	30.5	29.9	28.9	28.8	20.0	20.7	21.2	20.6											
135	33.9	33.9	33.3	32.5	23.5	23.9	24.5	24.0											
140	36.9	36.7	36.6	35.8	26.8	27.0	27.4	27.3											
145	39.5	39.1	39.2	38.7	29.8	29.8	30.4	30.5											
150	41.5	41.4	41.5	41.1	32.4	32.4	33.3	33.0											
155	43.5	43.3	43.4	43.0	34.3	34.6	35.4	35.4											
160	46.0	45.7	45.7	45.5	36.2	36.5	37.4	37.5											
165	48.0	47.9	47.8	47.6	41.2	41.3	42.3	42.2											
170	50.6	50.4	50.2	50.4	46.6	46.5	47.5	47.1											
175	52.5	52.2	51.6	52.4	50.5	50.1	51.0	50.7											
180	53.2	53.6	53.1	52.4	53.5	52.7	52.7	52.8											

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
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Operators:007
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γ Range: 0 - 180DEG
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