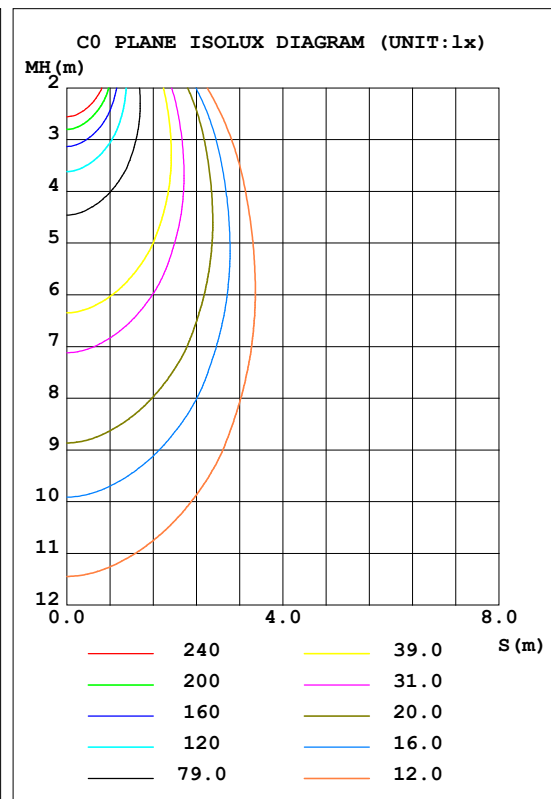
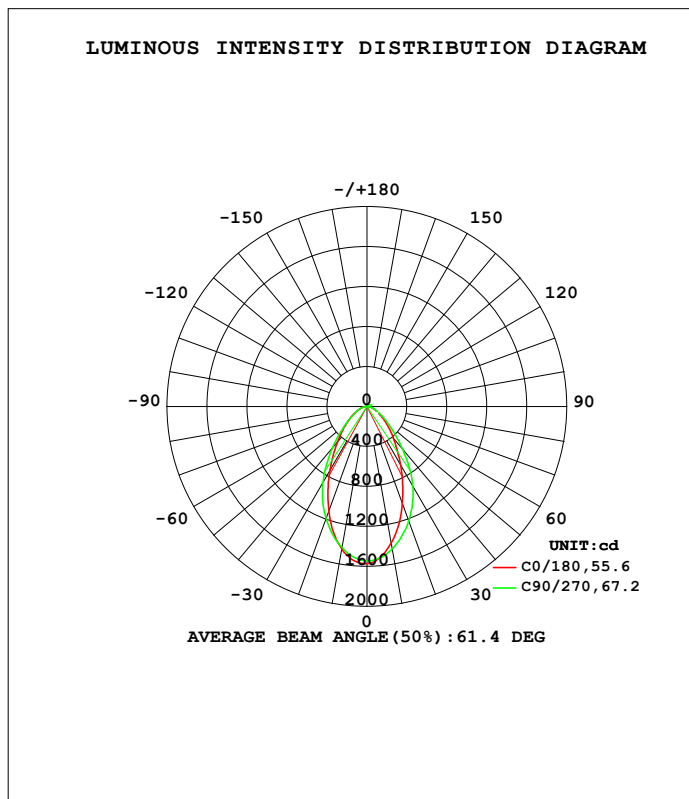


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	1573	S/MH (C0/180)	0.79
NOMINAL POWER (W)	34	LOR (%)	100.0	S/MH (C90/270)	0.95
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2018.0	η UP, DN (C0-180)	0.7, 48.9
NOMINAL FLUX (lm)	2017.98	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 49.8
LAMPS INSIDE	1	η up (%)	1.2	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220	η down (%)	98.8	CIBSE SHR MAX	0.95



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

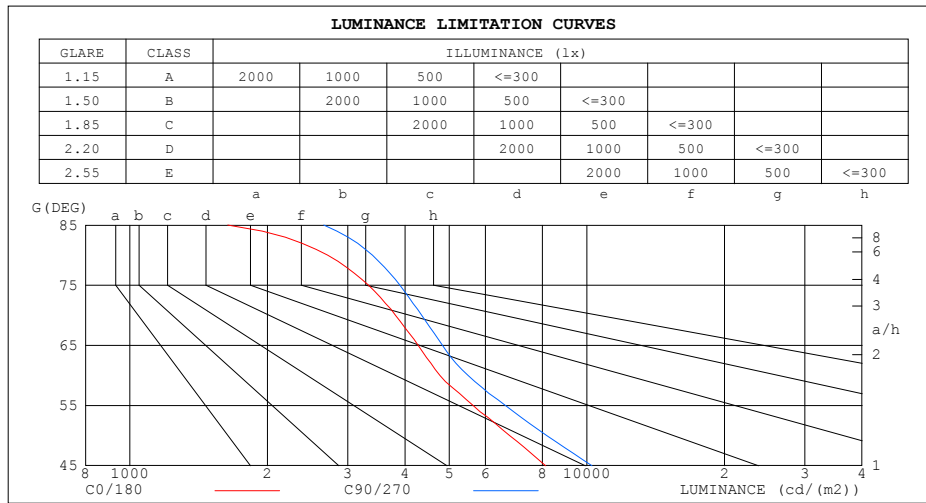
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1390	1498	1450	1370	1450	1380	1435	1492	0- 10	142.6	142.6	7.07,7.07
20	1036	1228	1222	1048	1118	1054	1196	1225	10- 20	362.9	505.4	25,25
30	674.8	871.0	919.2	701.2	748.1	704.9	884.2	871.4	20- 30	444.0	949.5	47.1,47.1
40	411.5	536.8	554.3	419.4	456.8	423.2	534.7	538.5	30- 40	394.0	1343	66.6,66.6
50	243.7	304.5	293.6	234.6	272.7	239.3	283.1	307.5	40- 50	284.2	1628	80.7,80.7
60	133.3	165.9	153.6	129.8	151.6	130.7	149.4	168.1	50- 60	182.0	1810	89.7,89.7
70	72.91	91.98	83.23	68.42	84.31	69.87	81.04	93.44	60- 70	110.4	1920	95.1,95.1
80	26.29	39.73	32.97	22.03	35.17	23.51	32.17	41.73	70- 80	58.08	1978	98,98
90	0.5294	2.359	0.9319	0.6746	0.6311	0.2539	0.2072	3.868	80- 90	14.88	1993	98.8,98.8
100	0.7741	0.7619	0.8549	0.8894	0.5889	0.6271	0.6292	0.4995	90-100	0.7003	1994	98.8,98.8
110	1.429	1.223	1.460	1.371	1.149	1.141	1.399	0.9542	100-110	1.011	1995	98.8,98.8
120	2.403	2.053	2.571	2.167	1.865	1.903	2.385	1.687	110-120	1.647	1996	98.9,98.9
130	3.938	3.498	4.294	3.624	3.015	3.289	3.909	2.831	120-130	2.491	1999	99.1,99.1
140	6.292	5.525	6.854	5.905	4.739	5.556	6.275	4.578	130-140	3.510	2002	99.2,99.2
150	9.722	8.020	10.24	9.402	7.341	9.157	9.896	6.959	140-150	4.472	2007	99.4,99.4
160	14.10	11.36	14.77	14.27	10.97	14.02	14.54	10.50	150-160	4.973	2012	99.7,99.7
170	18.93	16.95	18.88	20.10	15.50	19.67	18.88	16.37	160-170	4.334	2016	99.9,99.9
180	19.20	21.82	21.67	21.80	19.21	21.72	21.83	21.79	170-180	1.859	2018	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1639	2656
80	2709	3396
75	3331	3899
70	3814	4353
65	4276	4835
60	4769	5496
55	5641	6638
50	6782	8172
45	8122	10270

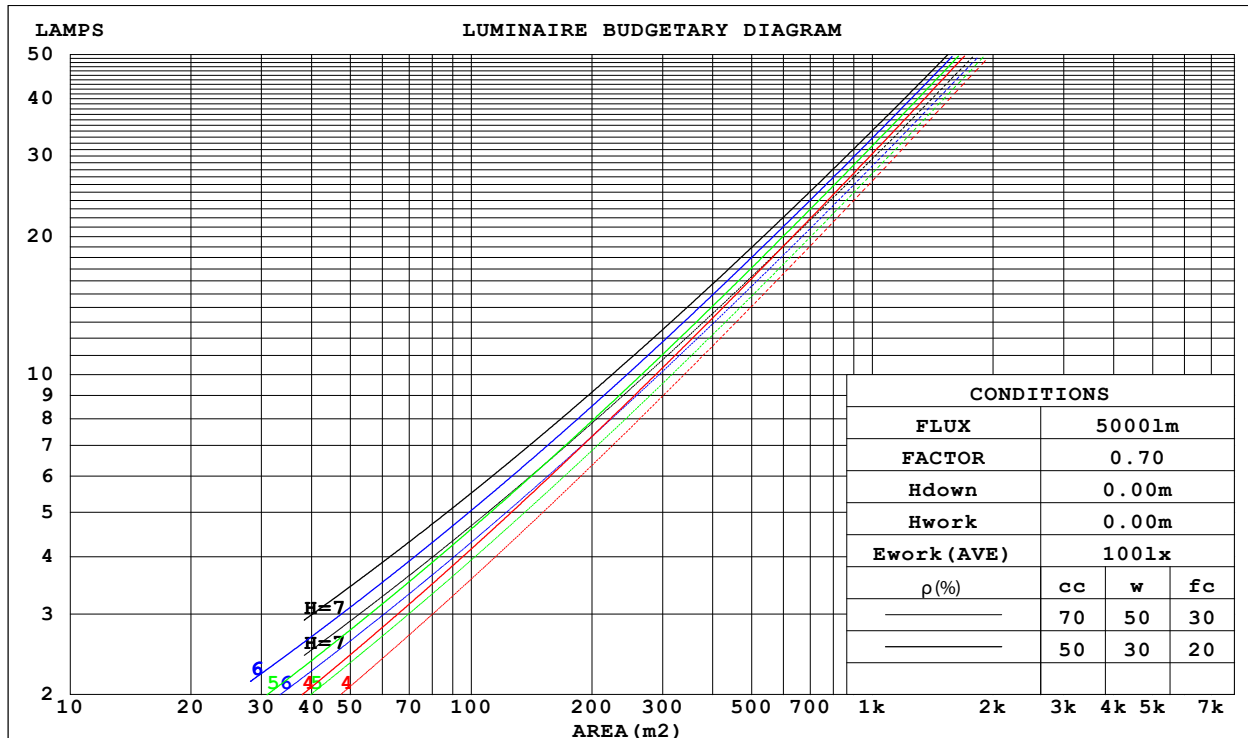
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.07	1.04	1.01	1.05	1.02	.99	1.01	.98	.96	.97	.95	.93	.93	.91	.90	.88
2.0	.97	.91	.87	.95	.90	.86	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.80	.76	.72	.78	.74	.71	.69
4.0	.80	.73	.67	.79	.72	.67	.76	.70	.66	.74	.69	.65	.72	.67	.64	.62
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.66	.62	.58	.56
6.0	.67	.60	.55	.66	.59	.54	.65	.58	.54	.63	.57	.53	.61	.57	.53	.51
7.0	.62	.55	.50	.62	.54	.50	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.58	.51	.46	.57	.50	.45	.56	.50	.45	.55	.49	.45	.53	.48	.45	.43
9.0	.54	.47	.42	.53	.47	.42	.52	.46	.42	.51	.45	.41	.50	.45	.41	.40
10.0	.50	.44	.39	.50	.43	.39	.49	.43	.39	.48	.42	.39	.47	.42	.38	.37



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.239	.136	.043	.232	.132	.042	.218	.125	.040	.205	.119	.038	.194	.112	.036	
2.0	.228	.125	.038	.222	.122	.038	.210	.117	.036	.199	.112	.035	.189	.107	.034	
3.0	.214	.114	.034	.209	.112	.034	.199	.108	.033	.189	.104	.032	.180	.100	.031	
4.0	.201	.105	.031	.196	.103	.030	.187	.099	.030	.179	.096	.029	.171	.093	.028	
5.0	.189	.096	.028	.185	.095	.028	.177	.092	.027	.169	.089	.027	.162	.087	.026	
6.0	.177	.089	.025	.174	.088	.025	.167	.085	.025	.160	.083	.024	.154	.081	.024	
7.0	.167	.083	.023	.164	.082	.023	.157	.080	.023	.152	.078	.023	.146	.076	.022	
8.0	.158	.077	.022	.155	.076	.022	.149	.075	.021	.144	.073	.021	.139	.071	.021	
9.0	.149	.072	.020	.147	.072	.020	.142	.070	.020	.137	.069	.020	.132	.067	.019	
10.0	.142	.068	.019	.139	.067	.019	.135	.066	.019	.130	.065	.018	.126	.063	.018	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.185	.166	.149	.158	.143	.129	.108	.098	.089	.062	.057	.052	.020	.018	.017	
2.0	.173	.142	.115	.148	.122	.100	.102	.084	.070	.059	.049	.041	.019	.016	.013	
3.0	.163	.124	.092	.140	.107	.080	.096	.074	.056	.056	.043	.033	.018	.014	.011	
4.0	.155	.110	.075	.133	.095	.065	.091	.066	.046	.053	.039	.027	.017	.013	.009	
5.0	.147	.099	.063	.126	.085	.055	.087	.060	.039	.050	.035	.023	.016	.011	.008	
6.0	.140	.090	.054	.120	.078	.047	.083	.054	.033	.048	.032	.020	.016	.010	.007	
7.0	.133	.083	.047	.115	.072	.041	.079	.050	.029	.046	.030	.017	.015	.010	.006	
8.0	.127	.077	.042	.110	.067	.037	.076	.047	.026	.044	.028	.015	.014	.009	.005	
9.0	.122	.072	.038	.105	.062	.033	.073	.044	.023	.042	.026	.014	.014	.008	.005	
10.0	.117	.067	.035	.101	.059	.030	.070	.041	.021	.041	.024	.013	.013	.008	.004	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm										
NAME: ML-HL					TYPE:			WEIGHT:		
SPEC.:ML-HL					DIM.: 1190*47*45mm			SERIAL No.:		
MFR.: Mercury Lighting					SUR.:1190*47mm			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	15.4	16.6	15.6	16.8	17.0	16.1	17.3	16.4	17.5	17.7
3H	16.1	17.2	16.4	17.4	17.7	16.8	17.9	17.1	18.2	18.4
4H	16.4	17.4	16.7	17.7	17.9	17.1	18.1	17.4	18.4	18.7
6H	16.5	17.5	16.9	17.8	18.1	17.3	18.3	17.6	18.6	18.9
8H	16.6	17.5	16.9	17.8	18.1	17.3	18.3	17.7	18.6	18.9
12H	16.6	17.5	16.9	17.8	18.1	17.4	18.3	17.7	18.6	18.9
4H 2H	15.8	16.8	16.1	17.1	17.3	16.4	17.4	16.7	17.7	17.9
3H	16.7	17.6	17.0	17.9	18.2	17.3	18.2	17.6	18.5	18.8
4H	17.1	17.9	17.5	18.3	18.6	17.7	18.5	18.1	18.9	19.2
6H	17.4	18.1	17.8	18.5	18.9	18.0	18.8	18.4	19.1	19.5
8H	17.5	18.1	17.9	18.5	18.9	18.1	18.8	18.5	19.2	19.6
12H	17.5	18.1	17.9	18.5	18.9	18.2	18.8	18.6	19.2	19.6
8H 4H	17.3	18.0	17.7	18.4	18.8	17.8	18.5	18.3	18.9	19.3
6H	17.7	18.3	18.2	18.7	19.2	18.3	18.9	18.8	19.3	19.7
8H	17.9	18.4	18.3	18.8	19.3	18.5	19.0	19.0	19.4	19.9
12H	17.9	18.4	18.4	18.8	19.3	18.6	19.0	19.1	19.5	20.0
12H 4H	17.3	17.9	17.7	18.3	18.8	17.8	18.5	18.3	18.9	19.3
6H	17.8	18.3	18.3	18.7	19.2	18.3	18.8	18.8	19.3	19.8
8H	18.0	18.4	18.5	18.9	19.4	18.6	19.0	19.0	19.4	19.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.6					+ 0.5 / - 0.7				
1.5H	+ 0.3 / - 0.6					+ 0.5 / - 0.5				
2.0H	+ 0.8 / - 0.9					+ 1.0 / - 0.8				

CIE Pub.117, 2018 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

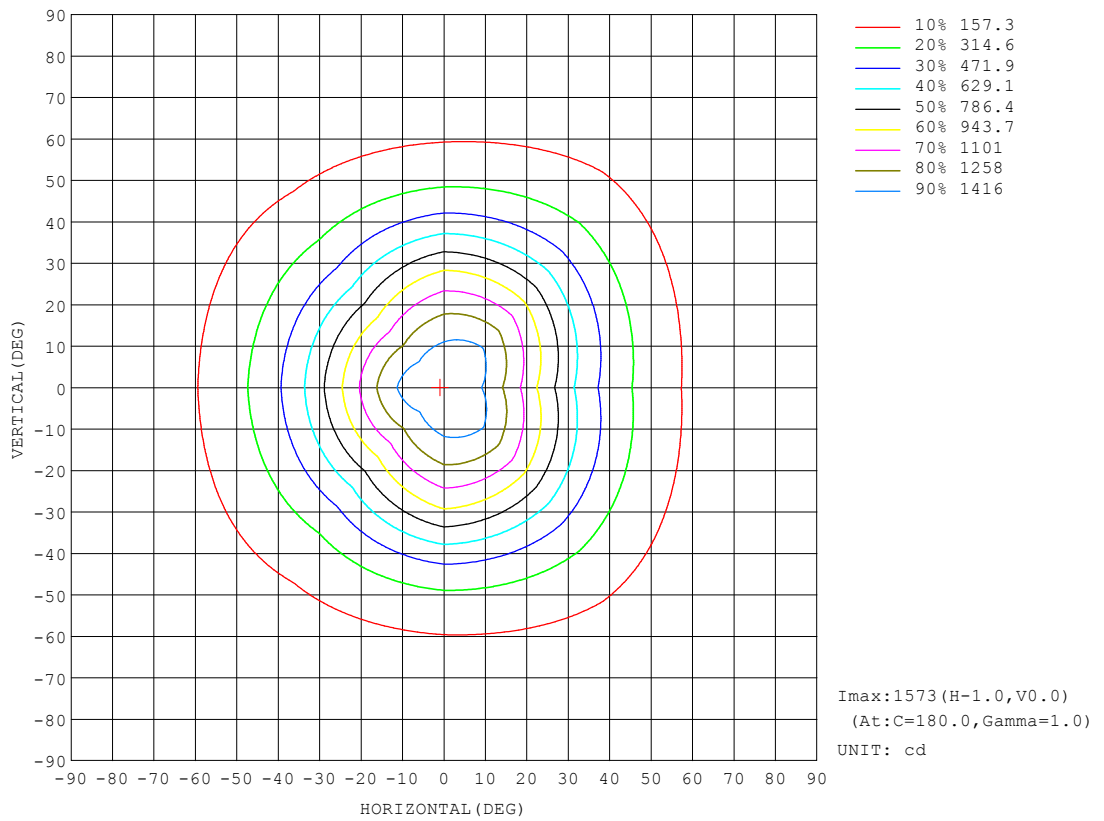
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	71	61	56	70	61	56	69	61	56	50
0.80	80	71	65	79	71	65	77	70	65	59
1.00	87	78	73	86	78	73	84	78	72	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	88	83	92	87	82	76
2.00	102	95	90	100	94	90	97	92	88	81
2.50	104	99	94	102	97	93	99	94	91	84
3.00	107	102	98	105	100	96	101	97	94	86
4.00	110	105	102	107	104	101	103	100	98	89
5.00	111	108	105	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:



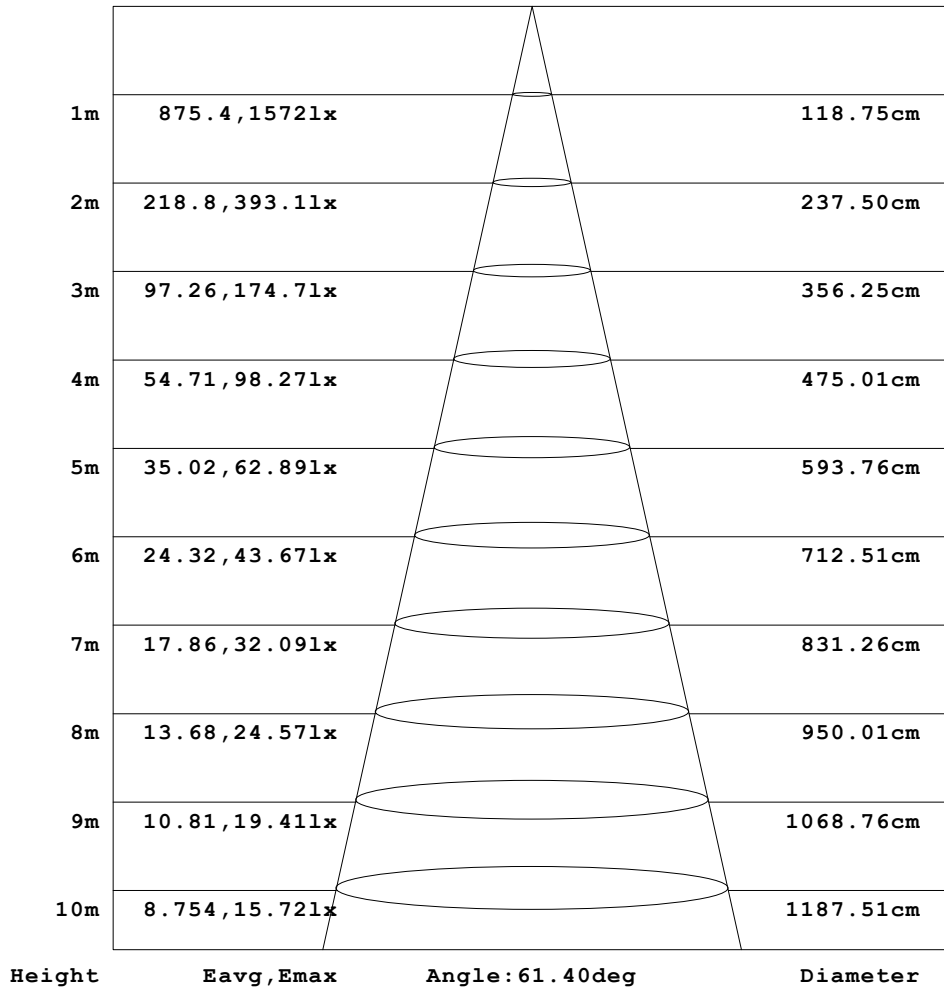
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

Flux out:992.9 lm



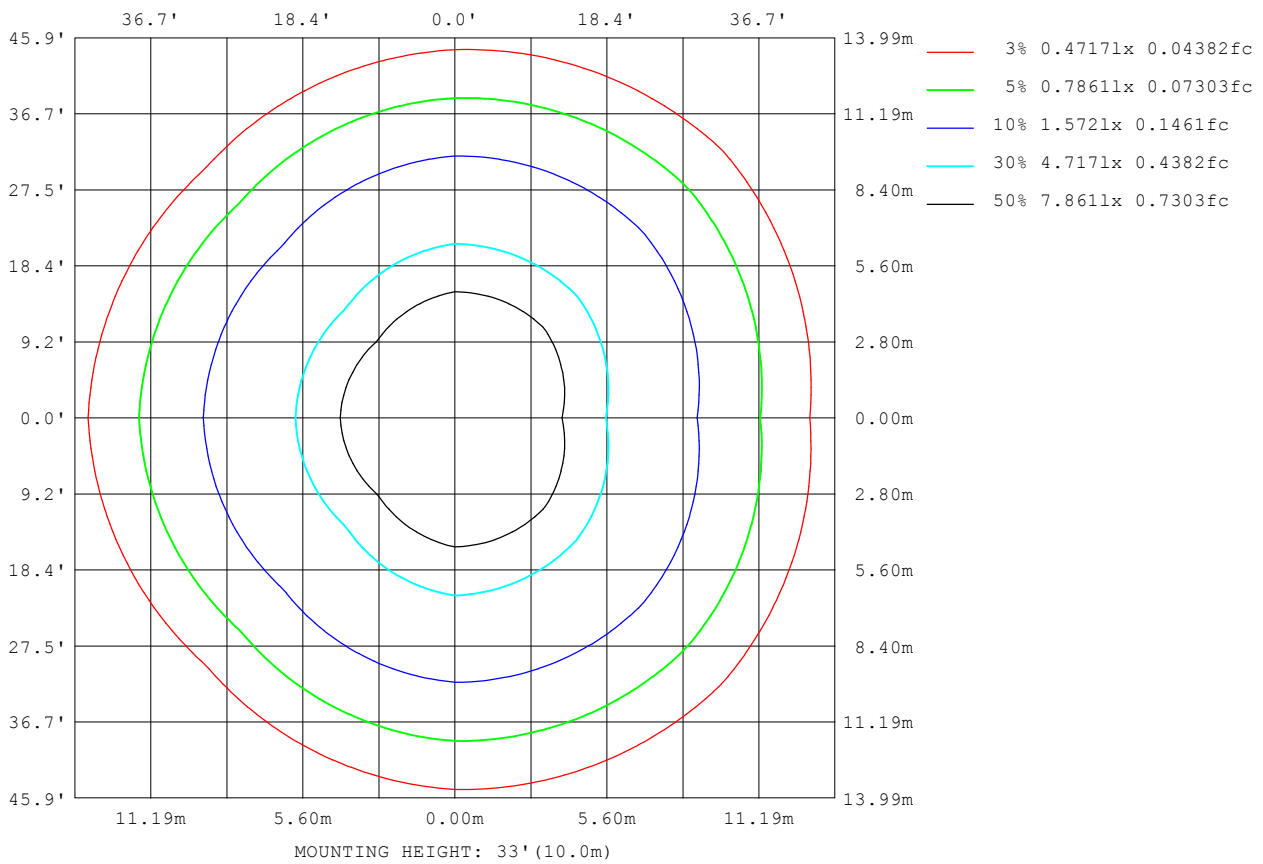
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2022-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

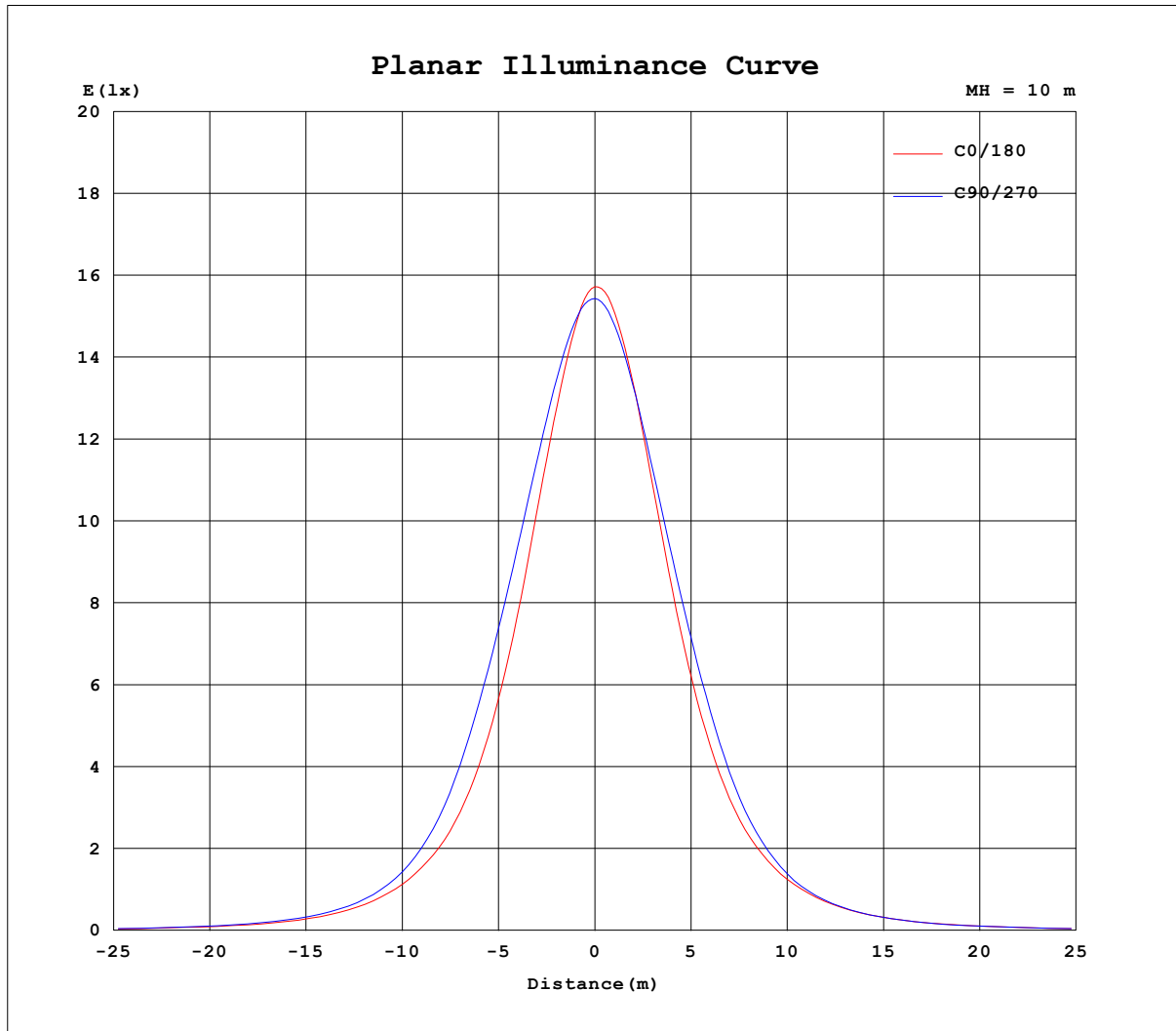
AvgL	cd/m2
L_0~180 (65) av	4546
L_0~180 (75) av	3682
L_0~180 (85) av	2390
L_90~270 (65) av	4769
L_90~270 (75) av	3849
L_90~270 (85) av	2613
L_45 (65) av	4701
L_45 (75) av	3775
L_45 (85) av	2559

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2022-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: GO-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.1640A P:34.80W PF:0.9650 Freq:50.00Hz Lamp Flux:2017.98x1 lm		
NAME: ML-HL	TYPE:	WEIGHT:
SPEC.:ML-HL	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	1572	1562	1543	1551	1572	1562	1543	1551										
5	1515	1565	1521	1485	1546	1495	1513	1555										
10	1390	1498	1450	1370	1450	1380	1435	1492										
15	1228	1378	1347	1220	1300	1227	1327	1373										
20	1036	1228	1222	1048	1118	1054	1196	1225										
25	848	1060	1079	873	926	877	1049	1054										
30	675	871	919	701	748	705	884	871										
35	526	694	735	546	587	551	704	695										
40	411	537	554	419	457	423	535	539										
45	321	408	406	314	355	320	393	410										
50	244	304	294	235	273	239	283	308										
55	181	225	213	174	205	176	205	228										
60	133	166	154	130	152	131	149	168										
65	101	124	114	97.1	114	98.2	111	125										
70	72.9	92.0	83.2	68.4	84.3	69.9	81.0	93.4										
75	48.2	64.0	56.4	43.6	58.3	45.1	55.0	65.8										
80	26.3	39.7	33.0	22.0	35.2	23.5	32.2	41.7										
85	7.99	18.7	12.9	4.56	15.3	5.75	12.5	20.9										
90	0.53	2.36	0.93	0.67	0.63	0.25	0.21	3.87										
95	0.54	0.67	0.86	0.74	0.34	0.41	0.37	0.27										
100	0.77	0.76	0.85	0.89	0.59	0.63	0.63	0.50										
105	1.07	0.94	1.05	1.10	0.86	0.86	0.98	0.70										
110	1.43	1.22	1.46	1.37	1.15	1.14	1.40	0.95										
115	1.82	1.61	1.96	1.70	1.46	1.46	1.84	1.28										
120	2.40	2.05	2.57	2.17	1.86	1.90	2.38	1.69										
125	3.08	2.71	3.32	2.81	2.39	2.52	3.06	2.18										
130	3.94	3.50	4.29	3.62	3.01	3.29	3.91	2.83										
135	4.99	4.44	5.50	4.64	3.76	4.26	4.99	3.61										
140	6.29	5.52	6.85	5.91	4.74	5.56	6.27	4.58										
145	7.88	6.70	8.40	7.46	5.94	7.18	7.85	5.70										
150	9.72	8.02	10.2	9.40	7.34	9.16	9.90	6.96										
155	11.8	9.55	12.5	11.7	9.01	11.4	12.2	8.45										
160	14.1	11.4	14.8	14.3	11.0	14.0	14.5	10.5										
165	16.5	13.9	16.9	17.2	13.1	16.8	16.8	13.2										
170	18.9	16.9	18.9	20.1	15.5	19.7	18.9	16.4										
175	19.5	19.9	20.6	21.4	17.6	21.2	20.7	19.6										
180	19.2	21.8	21.7	21.8	19.2	21.7	21.8	21.8										

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 C Interval: 45.0DEG
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