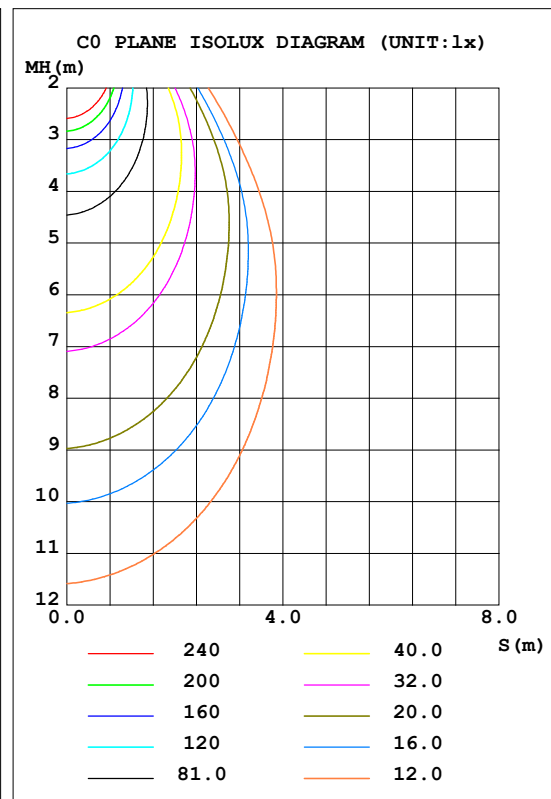
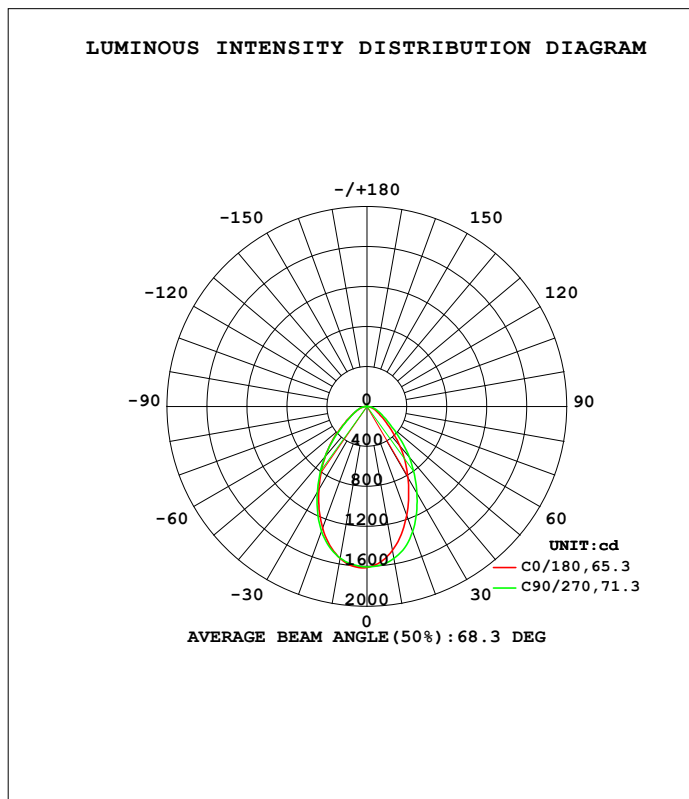


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 86.55 lm/W			
MODEL ML-MP		I _{max} (cd)	1615	S/MH (C0/180)	0.87
NOMINAL POWER (W)	28	LOR (%)	100.0	S/MH (C90/270)	1.00
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2354.3	η UP, DN (C0-180)	0.7, 47.9
NOMINAL FLUX (lm)	2354.28	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.6, 50.8
LAMPS INSIDE	1	η up (%)	1.3	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	98.7	CIBSE SHR MAX	1.05



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:

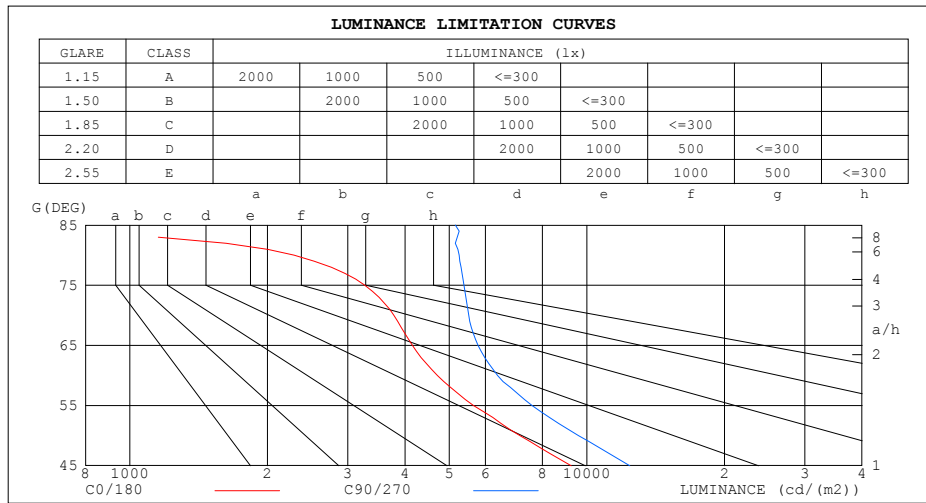
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1465	1540	1545	1502	1545	1518	1541	1552	0- 10	149.7	149.7	6.36,6.36
20	1163	1299	1335	1244	1298	1268	1329	1322	10- 20	397.7	547.4	23.3,23.3
30	820.8	958.0	1000	909.9	965.5	931.9	996.4	981.6	20- 30	512.0	1059	45.45
40	511.6	629.5	659.6	592.0	651.3	612.5	656.0	651.7	30- 40	486.4	1546	65.7,65.7
50	256.5	326.7	344.7	303.3	356.7	318.6	338.3	347.0	40- 50	357.2	1903	80.8,80.8
60	131.7	165.4	178.4	154.7	177.9	159.3	175.0	171.3	50- 60	207.9	2111	89.7,89.7
70	72.27	93.05	105.4	86.73	96.79	90.14	104.0	95.53	60- 70	123.4	2234	94.9,94.9
80	22.20	40.58	51.05	35.24	46.66	39.26	50.67	45.14	70- 80	70.88	2305	97.9,97.9
90	0.9952	1.068	1.269	1.601	2.463	0.4306	0.3218	0.9093	80- 90	19.23	2324	98.7,98.7
100	1.500	1.237	1.357	1.096	0.7753	0.8282	0.9017	0.8750	90-100	0.9877	2325	98.8,98.8
110	2.143	1.744	1.840	1.537	1.370	1.329	1.737	1.507	100-110	1.408	2327	98.8,98.8
120	3.406	2.595	2.993	2.443	2.160	2.176	2.809	2.348	110-120	2.072	2329	98.9,98.9
130	5.657	4.637	5.049	4.182	3.593	3.810	4.642	4.021	120-130	3.081	2332	99,99
140	8.632	7.401	8.225	6.829	5.832	6.431	7.516	6.477	130-140	4.437	2336	99.2,99.2
150	12.06	10.15	11.75	10.35	8.473	10.04	11.14	9.312	140-150	5.434	2342	99.5,99.5
160	16.29	13.73	16.75	14.88	11.95	14.57	16.22	13.24	150-160	5.720	2347	99.7,99.7
170	20.76	19.42	20.80	20.14	16.10	19.84	20.68	19.41	160-170	4.790	2352	99.9,99.9
180	20.10	23.10	23.16	23.30	20.10	23.09	23.35	23.30	170-180	1.988	2354	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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	628	5155
80	2287	5259
75	3267	5386
70	3780	5514
65	4153	5782
60	4711	6383
55	5649	7595
50	7138	9594
45	9247	12411

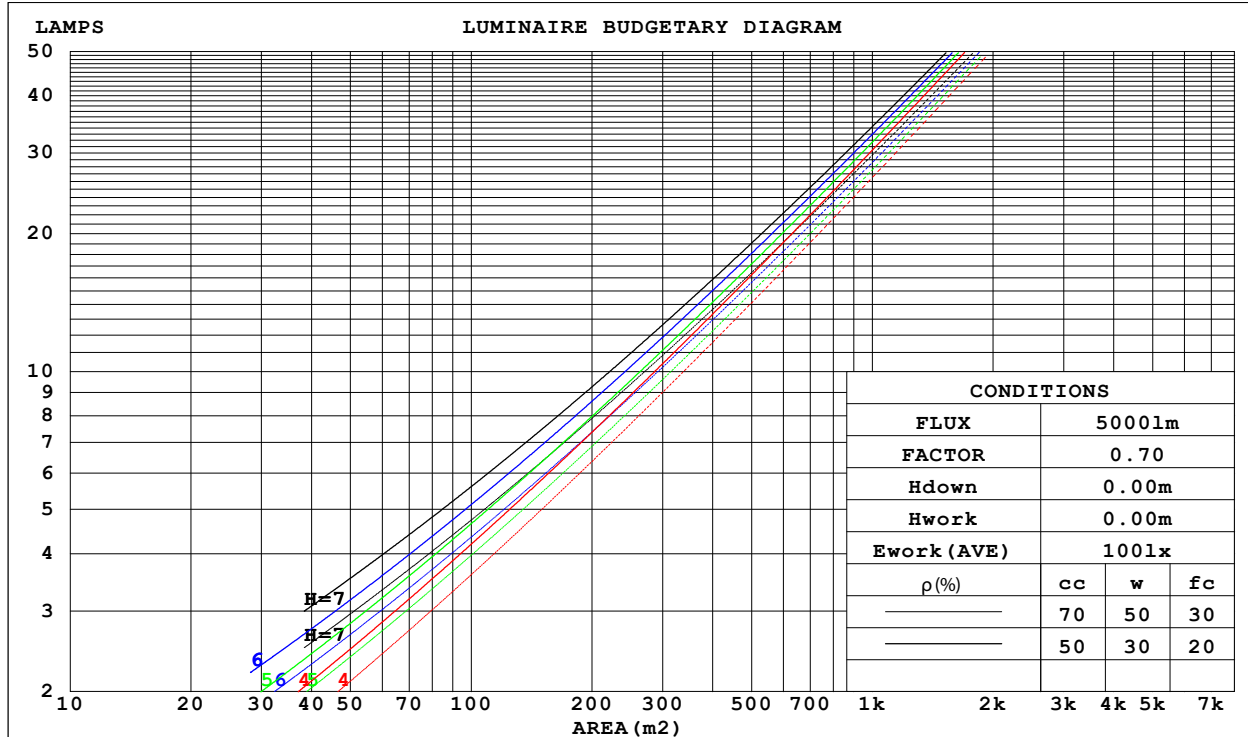
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-07-25

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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	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	1.00	.98	.96	.96	.94	.93	.93	.91	.90	.88
2.0	.96	.91	.86	.95	.90	.85	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77
3.0	.87	.81	.75	.86	.80	.75	.83	.78	.73	.80	.76	.72	.77	.74	.71	.69
4.0	.79	.72	.67	.78	.71	.66	.76	.70	.65	.73	.68	.64	.71	.67	.63	.61
5.0	.73	.65	.60	.71	.64	.59	.69	.63	.59	.67	.62	.58	.66	.61	.57	.55
6.0	.67	.59	.54	.66	.59	.53	.64	.58	.53	.62	.57	.52	.61	.56	.52	.50
7.0	.62	.54	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.56	.51	.47	.46
8.0	.57	.50	.45	.56	.49	.44	.55	.49	.44	.54	.48	.44	.53	.47	.44	.42
9.0	.53	.46	.41	.52	.46	.41	.51	.45	.41	.50	.44	.40	.49	.44	.40	.39
10.0	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.46	.41	.37	.36



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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	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	.242	.138	.044	.235	.134	.043	.221	.127	.040	.208	.120	.039	.197	.114	.037	
2.0	.231	.126	.039	.224	.124	.038	.213	.118	.037	.202	.113	.035	.192	.108	.034	
3.0	.217	.115	.035	.211	.113	.034	.201	.109	.033	.192	.105	.032	.183	.101	.031	
4.0	.204	.106	.031	.199	.104	.031	.190	.101	.030	.181	.097	.029	.173	.094	.029	
5.0	.191	.097	.028	.187	.096	.028	.179	.093	.027	.171	.090	.027	.164	.088	.026	
6.0	.180	.090	.026	.176	.089	.026	.169	.086	.025	.162	.084	.025	.156	.082	.024	
7.0	.169	.084	.024	.166	.083	.024	.160	.081	.023	.154	.079	.023	.148	.077	.023	
8.0	.160	.078	.022	.157	.077	.022	.151	.076	.022	.146	.074	.021	.141	.072	.021	
9.0	.151	.073	.020	.149	.072	.020	.143	.071	.020	.139	.069	.020	.134	.068	.020	
10.0	.144	.069	.019	.141	.068	.019	.136	.067	.019	.132	.066	.019	.128	.064	.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	.150	.159	.143	.129	.108	.098	.089	.062	.057	.052	.020	.018	.017	
2.0	.174	.142	.115	.149	.122	.100	.102	.085	.069	.059	.049	.041	.019	.016	.013	
3.0	.164	.124	.092	.141	.107	.079	.097	.074	.056	.056	.043	.033	.018	.014	.011	
4.0	.156	.110	.075	.133	.095	.065	.092	.066	.046	.053	.039	.027	.017	.013	.009	
5.0	.148	.099	.063	.127	.086	.055	.087	.060	.039	.051	.035	.023	.016	.011	.008	
6.0	.141	.090	.054	.121	.078	.047	.083	.055	.033	.048	.032	.020	.016	.011	.007	
7.0	.134	.083	.047	.116	.072	.041	.080	.051	.029	.046	.030	.017	.015	.010	.006	
8.0	.128	.077	.042	.111	.067	.037	.076	.047	.026	.044	.028	.015	.014	.009	.005	
9.0	.123	.072	.038	.106	.063	.033	.073	.044	.023	.043	.026	.014	.014	.009	.005	
10.0	.118	.068	.035	.102	.059	.030	.070	.041	.021	.041	.025	.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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm										
NAME: ML-MP			TYPE:			WEIGHT:				
SPEC.:ML-MP			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	14.8	16.0	15.1	16.3	16.5	15.8	17.1	16.1	17.3	17.5
3H	15.4	16.5	15.7	16.8	17.0	16.6	17.8	16.9	18.0	18.2
4H	15.6	16.7	16.0	17.0	17.2	17.0	18.1	17.3	18.4	18.6
6H	15.8	16.8	16.1	17.0	17.3	17.4	18.4	17.7	18.7	18.9
8H	15.7	16.7	16.1	17.0	17.3	17.5	18.5	17.8	18.8	19.1
12H	15.7	16.6	16.1	16.9	17.3	17.6	18.5	18.0	18.8	19.2
4H 2H	15.1	16.2	15.4	16.5	16.7	16.0	17.1	16.3	17.3	17.6
3H	15.9	16.9	16.3	17.2	17.5	17.0	17.9	17.4	18.2	18.6
4H	16.3	17.2	16.7	17.5	17.8	17.5	18.4	17.9	18.7	19.1
6H	16.5	17.3	16.9	17.6	18.0	18.0	18.8	18.4	19.2	19.5
8H	16.5	17.2	17.0	17.6	18.0	18.2	18.9	18.7	19.3	19.7
12H	16.5	17.2	17.0	17.6	18.0	18.4	19.0	18.8	19.4	19.9
8H 4H	16.5	17.2	17.0	17.6	18.0	17.7	18.4	18.1	18.7	19.1
6H	16.9	17.5	17.3	17.9	18.3	18.3	18.9	18.7	19.3	19.7
8H	16.9	17.4	17.4	17.9	18.4	18.6	19.1	19.0	19.5	20.0
12H	16.9	17.4	17.4	17.8	18.3	18.8	19.2	19.3	19.7	20.2
12H 4H	16.5	17.2	17.0	17.6	18.0	17.6	18.3	18.1	18.7	19.1
6H	16.9	17.4	17.4	17.9	18.4	18.3	18.8	18.8	19.2	19.7
8H	17.0	17.5	17.5	17.9	18.4	18.6	19.0	19.1	19.5	20.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.9					+ 0.5 / - 0.6				
1.5H	+ 0.6 / - 0.8					+ 0.5 / - 0.4				
2.0H	+ 1.2 / - 1.1					+ 1.2 / - 0.7				

CIE Pub.117, 2354 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)

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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

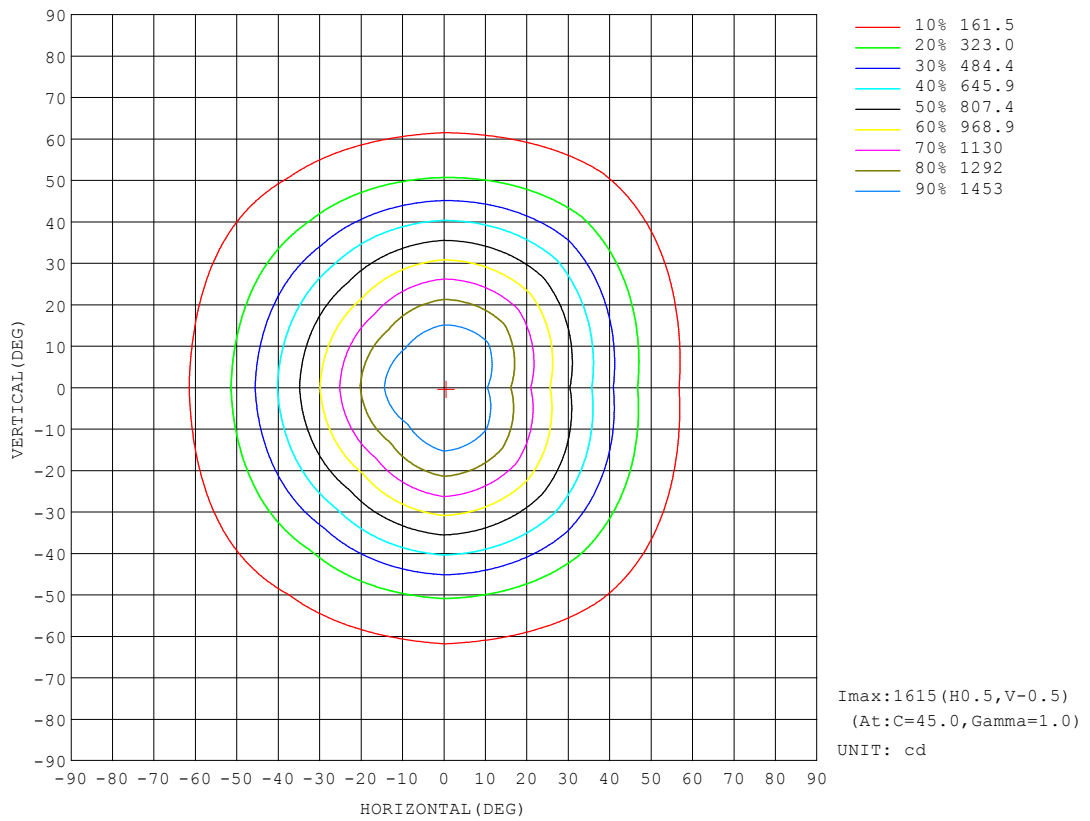
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) k(RI) x RCR = 5									
k = 0.60	70	61	55	69	61	55	68	60	55	50
0.80	79	70	65	78	70	64	77	69	64	58
1.00	86	78	72	85	77	72	83	78	71	66
1.25	92	84	79	91	84	79	89	82	78	72
1.50	96	89	84	95	88	83	92	86	82	76
2.00	101	95	90	100	94	89	96	91	88	81
2.50	104	98	94	102	97	93	99	94	91	83
3.00	107	101	97	104	100	96	101	97	94	86
4.00	110	105	102	107	103	100	103	100	97	89
5.00	111	108	105	109	106	103	104	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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:



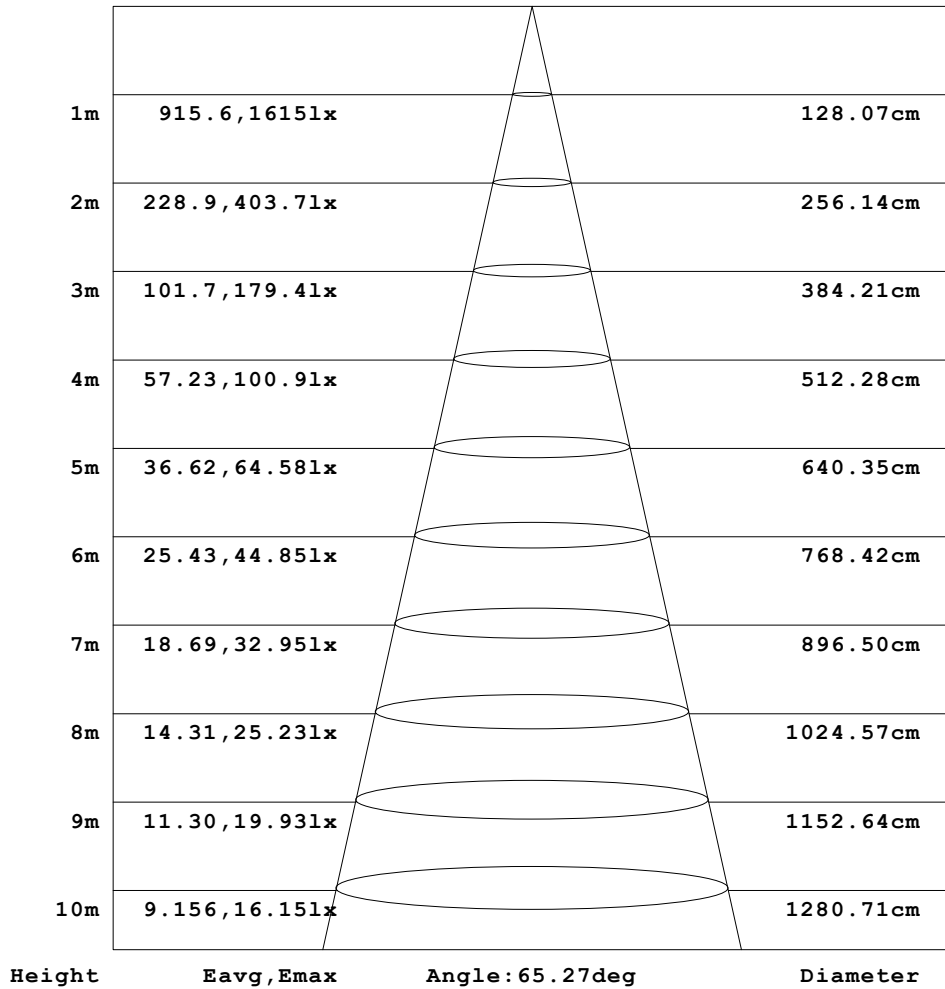
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-07-25

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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

Flux out:1213 lm



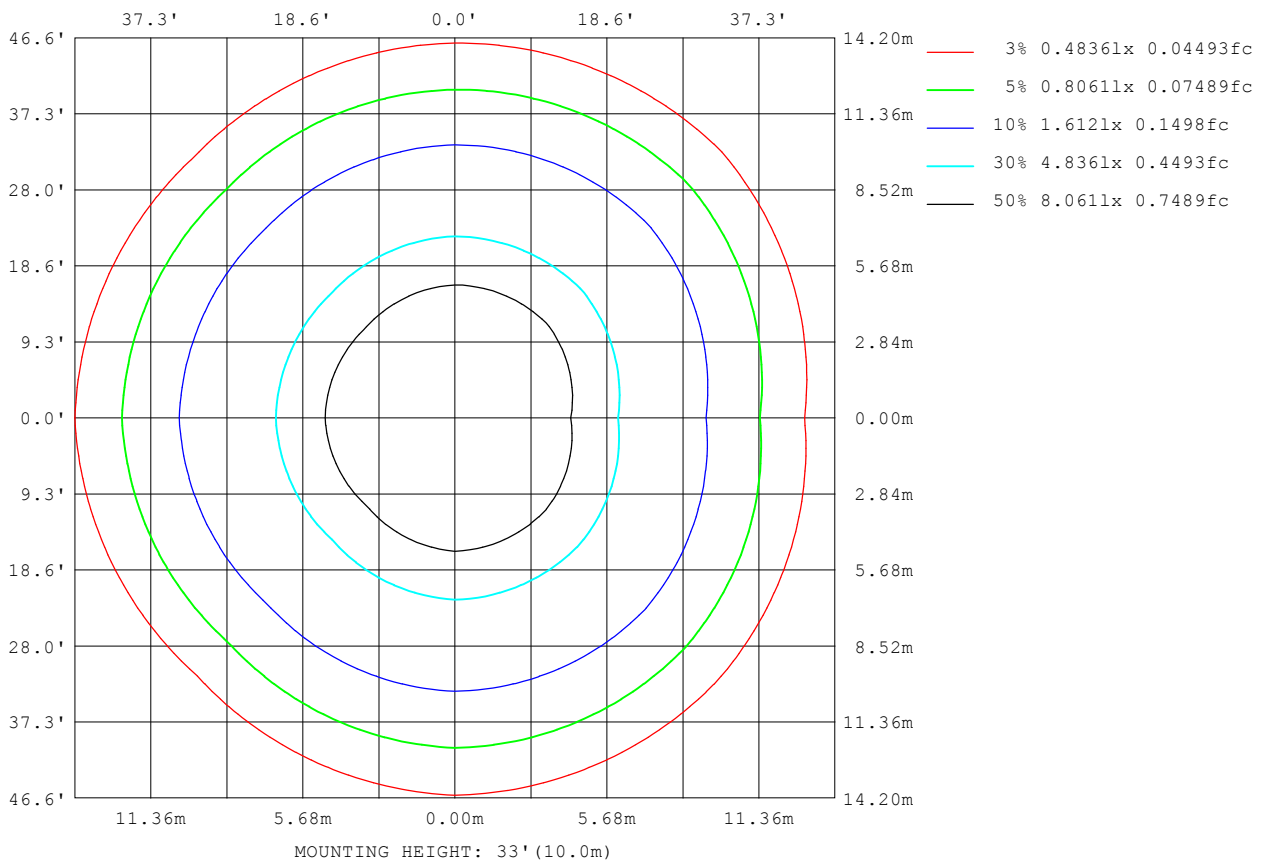
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	DIM.: 1190*47*45mm	SERIAL No.:
MFR.: Mercury Lighting	SUR.:1190*47mm	Shielding Angle:

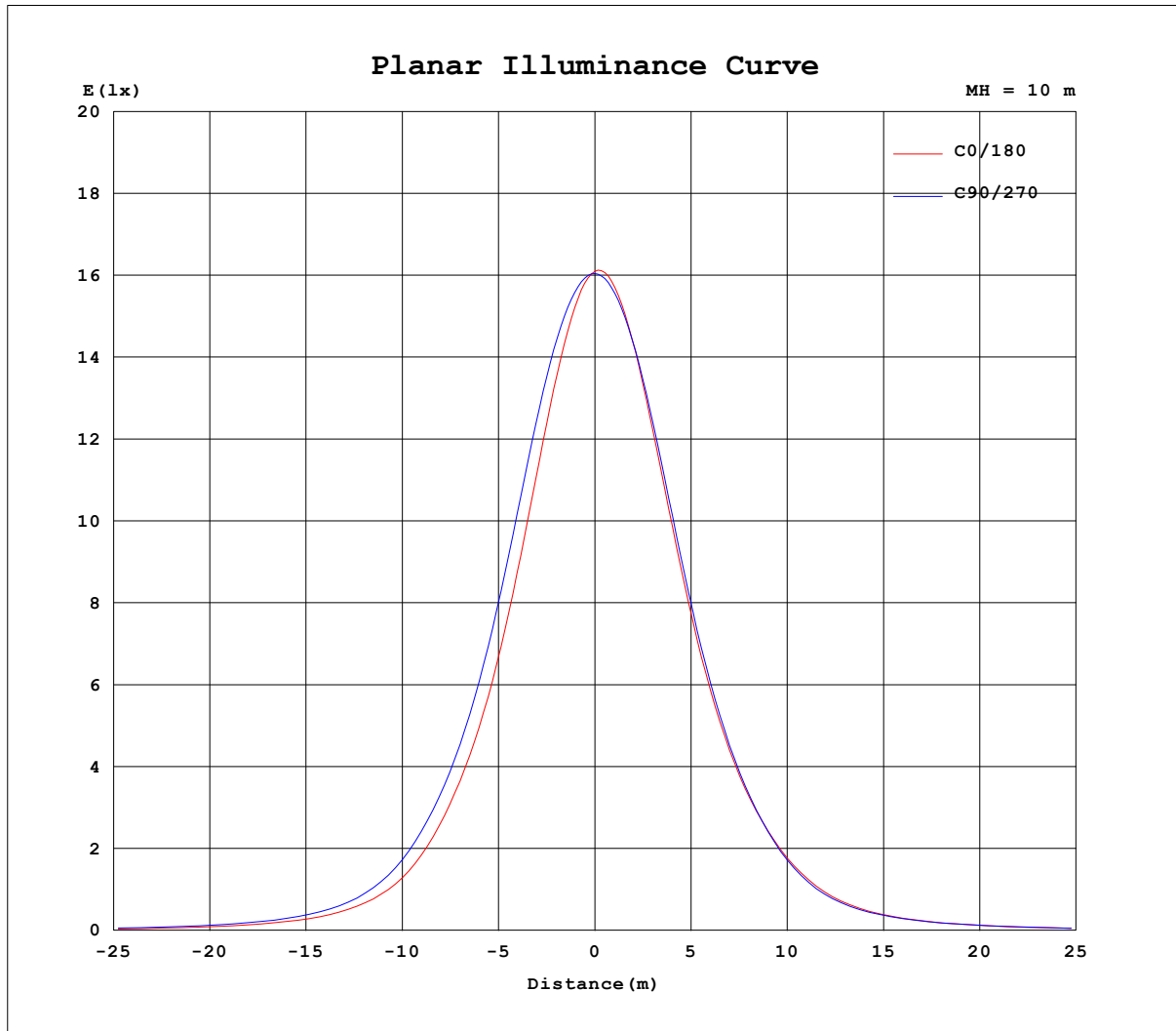
AvgL	cd/m2
L_0~180 (65) av	4821
L_0~180 (75) av	4101
L_0~180 (85) av	2551
L_90~270 (65) av	5733
L_90~270 (75) av	5367
L_90~270 (85) av	5091
L_45 (65) av	5120
L_45 (75) av	4560
L_45 (85) av	2877

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:0.1260A P:27.20W PF:0.9780 Freq:50.00Hz Lamp Flux:2354.28x1 lm		
NAME: ML-MP	TYPE:	WEIGHT:
SPEC.:ML-MP	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	1610	1615	1605	1611	1610	1615	1605	1611										
5	1562	1599	1591	1577	1604	1587	1589	1603										
10	1465	1540	1545	1502	1545	1518	1541	1552										
15	1327	1439	1462	1390	1439	1410	1455	1457										
20	1163	1299	1335	1244	1298	1268	1329	1322										
25	989	1132	1175	1079	1136	1103	1171	1158										
30	821	958	1000	910	966	932	996	982										
35	666	789	827	748	803	769	824	812										
40	512	629	660	592	651	613	656	652										
45	365	469	491	437	502	456	487	491										
50	256	327	345	303	357	319	338	347										
55	181	229	244	214	250	223	237	242										
60	132	165	178	155	178	159	175	171										
65	98.1	123	137	115	130	119	134	126										
70	72.3	93.0	105	86.7	96.8	90.1	104	95.5										
75	47.3	67.0	77.9	61.3	71.4	65.0	77.4	70.6										
80	22.2	40.6	51.0	35.2	46.7	39.3	50.7	45.1										
85	3.06	14.1	25.1	9.72	21.8	13.3	24.5	18.9										
90	1.00	1.07	1.27	1.60	2.46	0.43	0.32	0.91										
95	1.24	1.10	1.27	0.94	0.51	0.53	0.59	0.65										
100	1.50	1.24	1.36	1.10	0.78	0.83	0.90	0.87										
105	1.79	1.42	1.51	1.26	1.10	1.07	1.31	1.15										
110	2.14	1.74	1.84	1.54	1.37	1.33	1.74	1.51										
115	2.71	2.17	2.38	1.90	1.73	1.69	2.19	1.79										
120	3.41	2.60	2.99	2.44	2.16	2.18	2.81	2.35										
125	4.37	3.49	3.83	3.20	2.81	2.86	3.58	3.08										
130	5.66	4.64	5.05	4.18	3.59	3.81	4.64	4.02										
135	7.15	6.01	6.58	5.39	4.64	5.00	6.01	5.16										
140	8.63	7.40	8.23	6.83	5.83	6.43	7.52	6.48										
145	10.2	8.71	9.84	8.47	7.09	8.10	9.16	7.91										
150	12.1	10.2	11.8	10.3	8.47	10.0	11.1	9.31										
155	14.1	11.9	14.3	12.5	10.1	12.2	13.6	11.0										
160	16.3	13.7	16.8	14.9	11.9	14.6	16.2	13.2										
165	18.6	16.5	19.0	17.6	13.9	17.1	18.6	16.2										
170	20.8	19.4	20.8	20.1	16.1	19.8	20.7	19.4										
175	20.2	21.5	22.2	22.7	18.0	22.2	22.4	21.6										
180	20.1	23.1	23.2	23.3	20.1	23.1	23.4	23.3										

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 C Interval: 45.0DEG
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