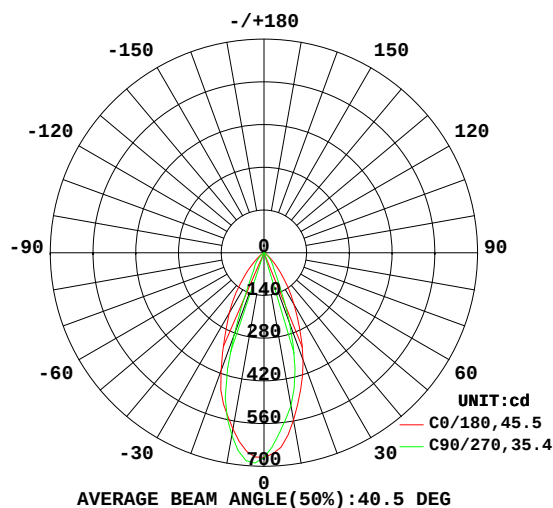


LUMINAIRE PHOTOMETRIC TEST REPORT

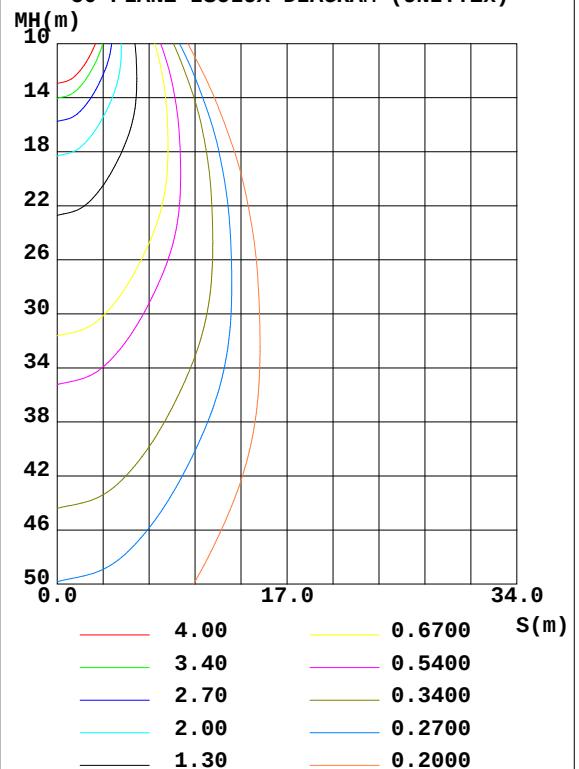
Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 31.20 lm/W			
MODEL	3000K	I _{max} (cd)	690.1	S/MH(C0/180)	0.74
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	394.08	η UP, DN(C0-180)	0.5, 46.7
NOMINAL FLUX(lm)	394.078	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.3, 52.5
LAMPS INSIDE	1	η up(%)	0.8	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	99.2	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.250m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

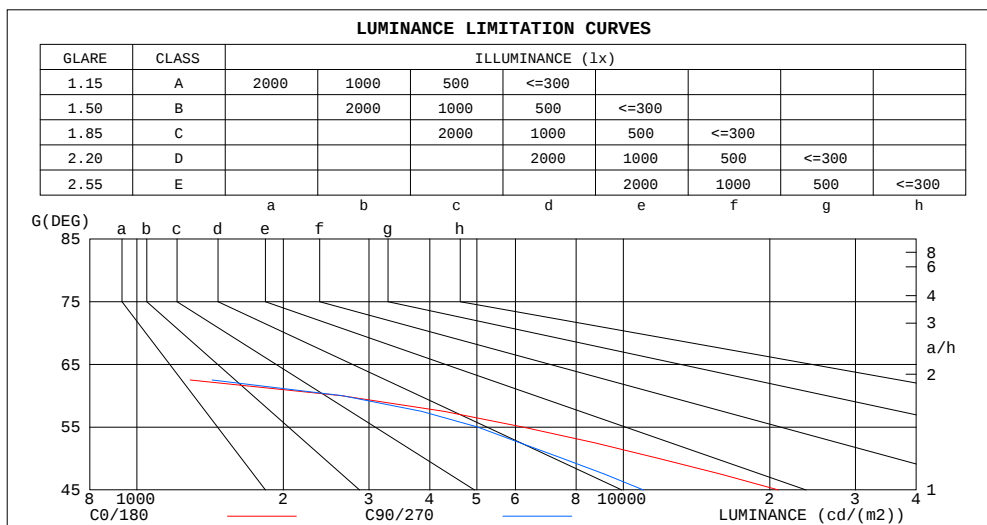
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	557.5	511.8	509.6	521.6	586.7	613.0	607.1	596.2	0- 10	58.74	58.74	14.9,14.9
20	375.5	319.1	245.6	329.3	412.3	395.0	289.4	389.0	10- 20	127.8	186.6	47.3,47.3
30	198.6	129.9	72.23	135.9	227.6	144.0	71.12	150.7	20- 30	103.8	290.4	73.7,73.7
40	83.73	48.33	37.77	53.54	99.17	53.40	36.89	50.76	30- 40	58.02	348.4	88.4,88.4
50	24.69	23.32	15.67	26.46	28.49	25.08	14.23	22.46	40- 50	29.34	377.8	95.9,95.9
60	4.276	6.492	4.294	7.459	5.134	6.498	3.047	5.598	50- 60	11.39	389.2	98.8,98.8
70	0	0.0401	0	0.1894	0	0.0017	0	0.0011	60- 70	1.795	391.0	99.2,99.2
80	0	0	0	0	0	0	0	0	70- 80	0.0038	391.0	99.2,99.2
90	0	0.0000	0	0	0	0	0	0	80- 90	0.0000	391.0	99.2,99.2
100	0.0621	0.0659	0	0.0476	0.0110	0	0	0	90-100	0.0103	391.0	99.2,99.2
110	0.2337	0.2342	0.1022	0.1903	0.0989	0.0109	0.0330	0.0548	100-110	0.0676	391.1	99.2,99.2
120	0.5079	0.5158	0.4017	0.4609	0.2781	0.1643	0.1574	0.2192	110-120	0.2163	391.3	99.3,99.3
130	0.8550	0.8997	0.8294	0.8413	0.5378	0.3982	0.4282	0.5151	120-130	0.4408	391.7	99.4,99.4
140	1.162	1.229	1.221	1.214	0.8339	0.7418	0.7865	0.8040	130-140	0.6424	392.4	99.6,99.6
150	1.301	1.393	1.444	1.408	1.068	1.056	1.123	1.042	140-150	0.7059	393.1	99.7,99.7
160	1.291	1.298	1.444	1.327	1.093	1.166	1.184	1.104	150-160	0.5797	393.6	99.9,99.9
170	1.130	1.104	1.145	1.130	1.038	1.112	1.042	1.057	160-170	0.3353	394.0	100,100
180	1.046	1.020	0.9944	1.005	1.035	1.016	0.9907	1.009	170-180	0.1001	394.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	385	360
60	2631	2643
55	6213	5019
50	11818	7501
45	20830	10996

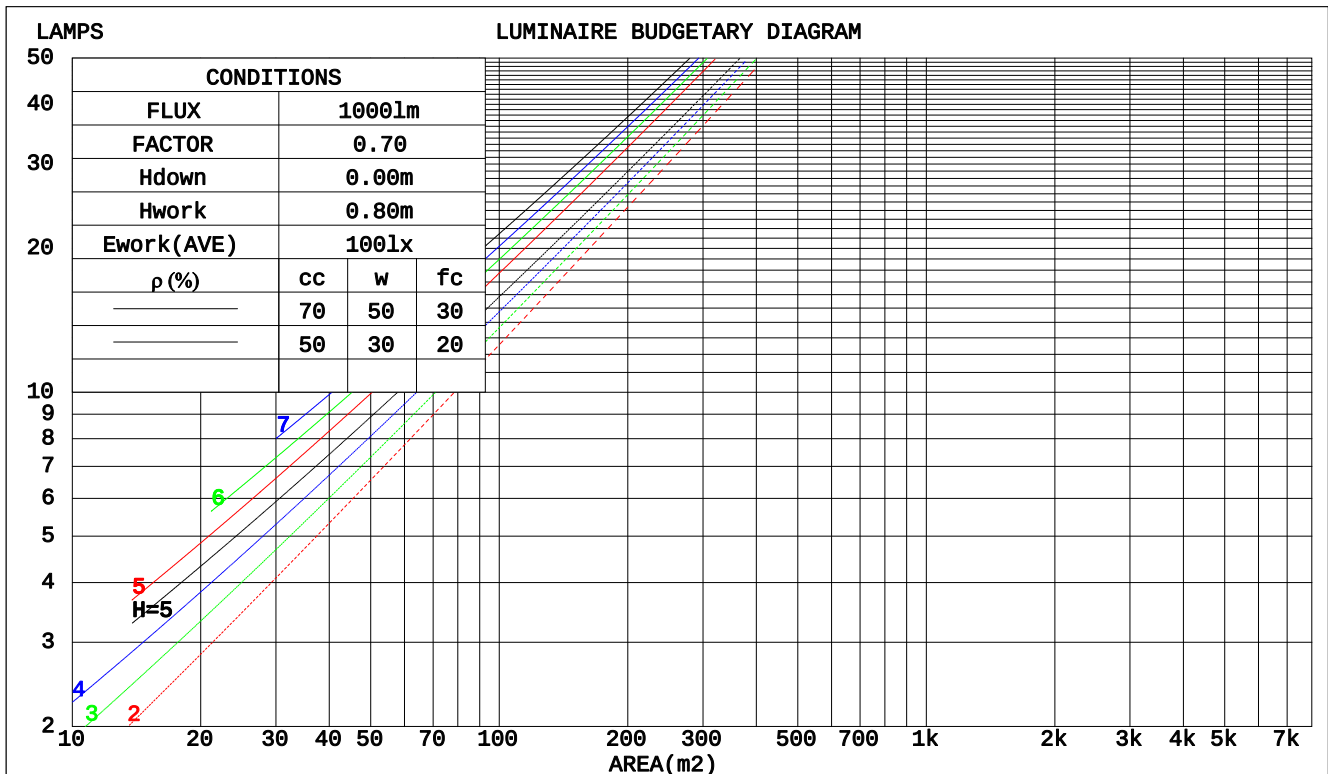
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	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	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	.99
1.0	1.11	1.08	1.06	1.09	1.06	1.04	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.03	.99	.96	1.02	.98	.95	.98	.95	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.97	.92	.88	.95	.91	.87	.92	.89	.86	.90	.87	.84	.88	.85	.83	.81
4.0	.91	.85	.81	.89	.84	.81	.87	.83	.80	.85	.81	.79	.83	.80	.78	.76
5.0	.85	.80	.75	.84	.79	.75	.82	.78	.74	.81	.77	.74	.79	.76	.73	.71
6.0	.80	.75	.70	.79	.74	.70	.78	.73	.70	.76	.72	.69	.75	.71	.69	.67
7.0	.76	.70	.66	.75	.70	.66	.74	.69	.65	.73	.68	.65	.71	.68	.65	.63
8.0	.72	.66	.62	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
9.0	.68	.63	.59	.68	.62	.59	.67	.62	.59	.66	.61	.58	.65	.61	.58	.57
10.0	.65	.60	.56	.65	.59	.56	.64	.59	.56	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm					
NAME: MTHSA601251-BK3K10			TYPE:		WEIGHT:
SPEC.: black RA90			DIM.:		SERIAL No.:
MFR.:			SUR.: 130*25mm		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	.174	.099	.031	.167	.095	.030	.154	.088	.028	.142	.082	.026	.131	.076	.024	
2.0	.166	.091	.028	.160	.088	.027	.149	.083	.026	.139	.078	.024	.130	.074	.023	
3.0	.158	.084	.025	.153	.082	.025	.144	.078	.024	.135	.074	.023	.127	.070	.022	
4.0	.150	.078	.023	.146	.076	.023	.138	.073	.022	.131	.070	.021	.124	.067	.020	
5.0	.143	.073	.021	.139	.072	.021	.132	.069	.020	.126	.066	.020	.120	.064	.019	
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.121	.063	.018	.116	.061	.018	
7.0	.130	.064	.018	.127	.063	.018	.122	.061	.018	.116	.060	.017	.112	.058	.017	
8.0	.124	.061	.017	.122	.060	.017	.117	.058	.017	.112	.057	.016	.108	.055	.016	
9.0	.119	.057	.016	.116	.057	.016	.112	.055	.016	.108	.054	.015	.104	.053	.015	
10.0	.114	.055	.015	.112	.054	.015	.108	.053	.015	.104	.052	.015	.100	.050	.014	

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	.196	.196	.196	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.177	.163	.151	.151	.140	.130	.104	.096	.090	.060	.056	.052	.019	.018	.017	
2.0	.162	.139	.119	.138	.119	.103	.095	.083	.072	.055	.048	.042	.018	.016	.014	
3.0	.149	.120	.096	.128	.103	.083	.088	.072	.059	.051	.042	.034	.016	.014	.011	
4.0	.139	.105	.079	.119	.091	.069	.082	.063	.048	.047	.037	.029	.015	.012	.009	
5.0	.130	.093	.066	.112	.081	.058	.077	.056	.041	.044	.033	.024	.014	.011	.008	
6.0	.122	.084	.056	.105	.073	.049	.072	.051	.035	.042	.030	.021	.014	.010	.007	
7.0	.116	.076	.049	.099	.066	.043	.069	.046	.030	.040	.027	.018	.013	.009	.006	
8.0	.110	.070	.043	.095	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
9.0	.105	.065	.038	.090	.056	.033	.062	.040	.023	.036	.023	.014	.012	.008	.005	
10.0	.100	.060	.034	.086	.052	.030	.060	.037	.021	.035	.022	.013	.011	.007	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm											
NAME: MTHSA601251-BK3K10					TYPE:			WEIGHT:			
SPEC.: black RA90					DIM.:			SERIAL No.:			
MFR.:					SUR.: 130*25mm			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		20.8	21.7	21.0	21.9	22.0	18.0	18.9	18.3	19.1	19.3
	3H	20.6	21.4	20.9	21.6	21.9	17.9	18.7	18.1	18.9	19.1
	4H	20.5	21.3	20.8	21.5	21.8	17.8	18.6	18.1	18.8	19.0
	6H	20.4	21.2	20.7	21.4	21.7	17.7	18.4	18.0	18.7	18.9
	8H	20.4	21.1	20.7	21.3	21.6	17.6	18.3	17.9	18.6	18.9
	12H	20.3	21.0	20.6	21.3	21.6	17.6	18.3	17.9	18.5	18.8
4H	2H	20.6	21.4	20.9	21.6	21.8	17.9	18.7	18.2	18.9	19.2
	3H	20.4	21.1	20.7	21.4	21.6	17.7	18.4	18.1	18.7	19.0
	4H	20.3	20.9	20.6	21.2	21.5	17.6	18.3	18.0	18.6	18.9
	6H	20.2	20.7	20.6	21.1	21.4	17.5	18.1	17.9	18.4	18.8
	8H	20.1	20.6	20.5	21.0	21.4	17.5	18.0	17.9	18.4	18.7
	12H	20.1	20.5	20.5	20.9	21.3	17.4	17.9	17.9	18.3	18.7
8H	4H	20.1	20.6	20.5	21.0	21.4	17.5	18.0	17.9	18.4	18.7
	6H	20.0	20.4	20.5	20.9	21.3	17.4	17.8	17.8	18.2	18.6
	8H	20.0	20.3	20.4	20.8	21.2	17.3	17.7	17.8	18.1	18.6
	12H	19.9	20.2	20.4	20.7	21.2	17.3	17.6	17.8	18.0	18.5
12H	4H	20.1	20.5	20.5	20.9	21.3	17.4	17.9	17.9	18.3	18.7
	6H	20.0	20.3	20.4	20.8	21.2	17.3	17.7	17.8	18.1	18.6
	8H	19.9	20.2	20.4	20.7	21.2	17.3	17.6	17.8	18.0	18.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H	+ 3.6 / - 7.2					+ 2.1 / - 4.9					
1.5H	+ 4.6 / - 4.6					+ 1.8 / - 2.8					
2.0H	+ 5.7 / - 9.3					+ 3.6 / - 7.6					

CIE Pub.117, 394.1 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)
Area: 0.00325 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:

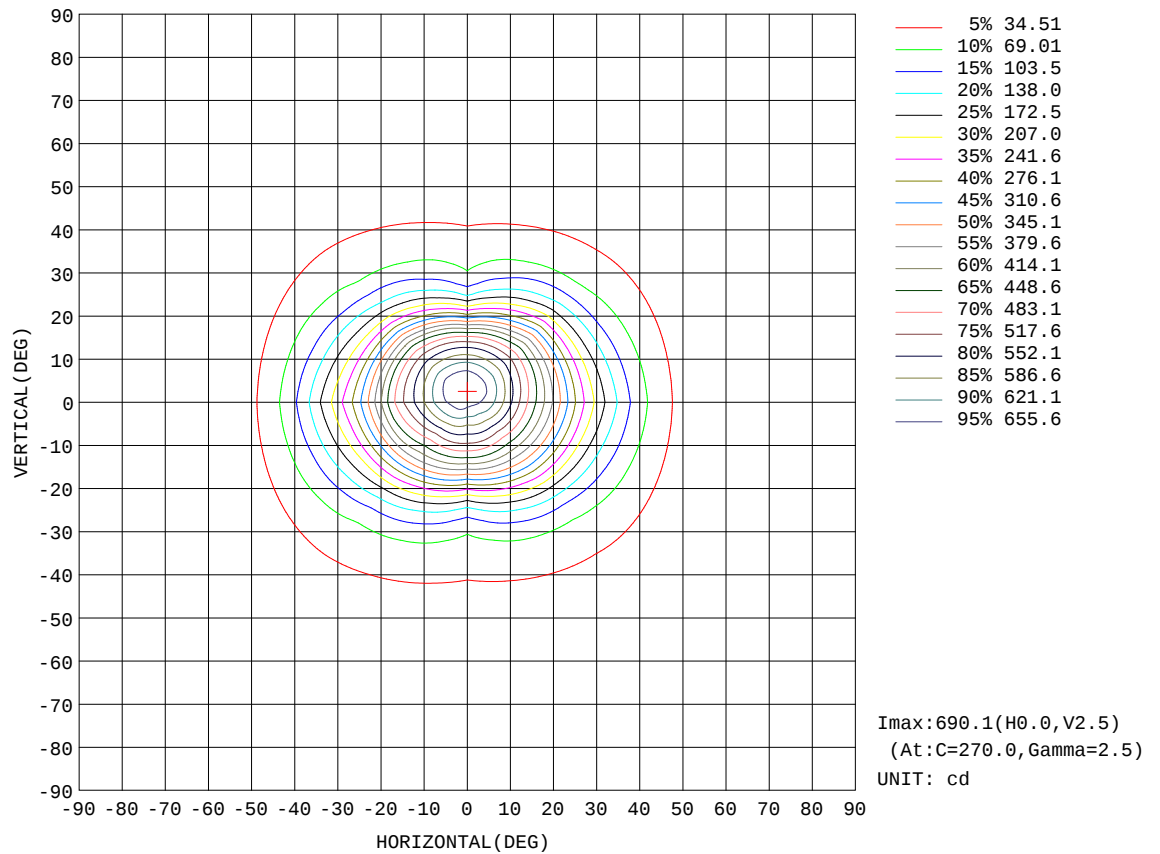
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	84	77	73	84	77	73	83	77	73	69
0.80	92	86	82	91	85	82	90	85	81	77
1.00	97	91	87	96	91	87	95	91	86	82
1.25	102	96	92	100	95	92	98	94	91	87
1.50	105	100	96	103	99	95	101	97	94	89
2.00	108	103	100	106	102	99	103	100	97	92
2.50	109	105	102	108	104	101	104	102	99	93
3.00	111	107	105	109	106	103	106	103	101	94
4.00	113	110	108	111	109	106	107	105	104	96
5.00	114	112	110	112	110	108	108	107	105	97
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:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
γ Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:

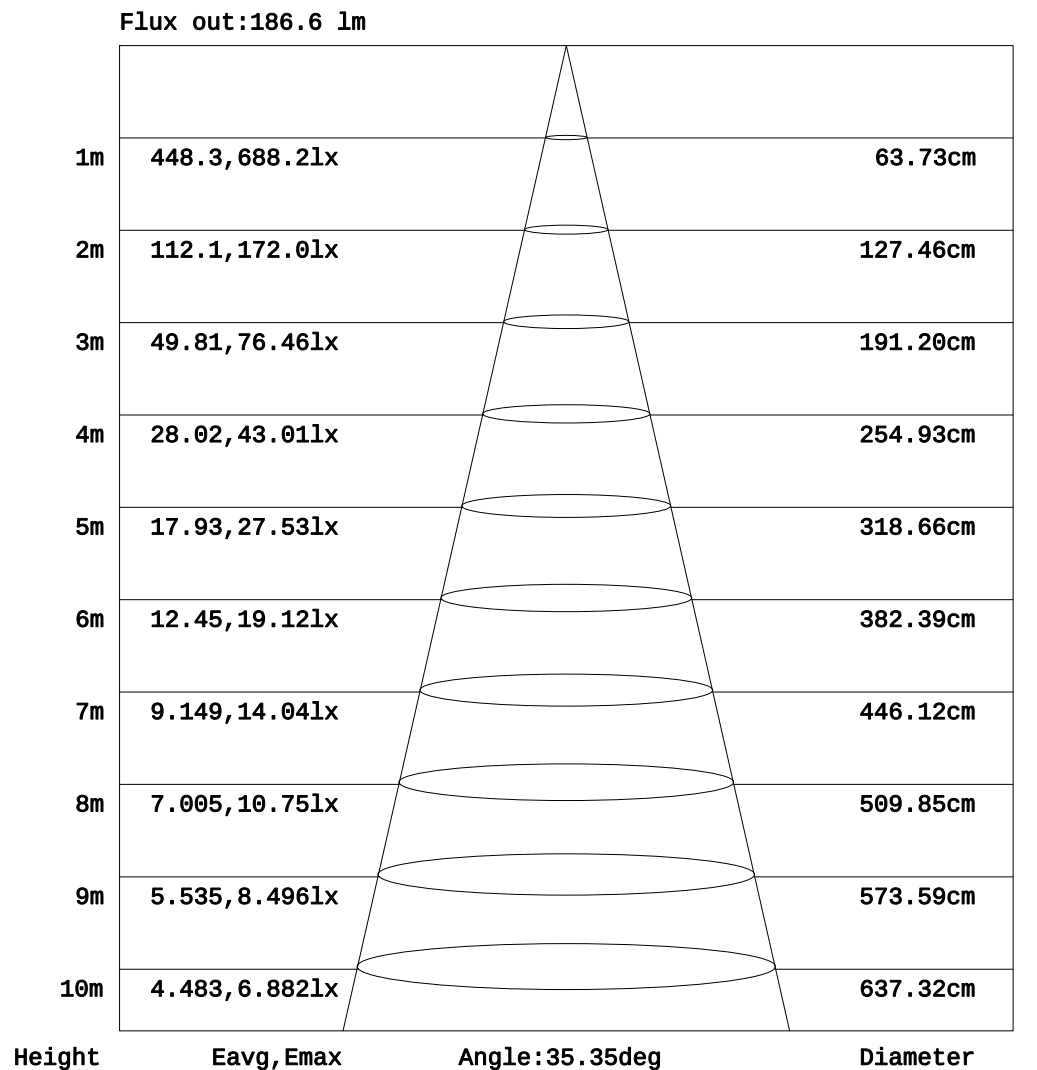


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:



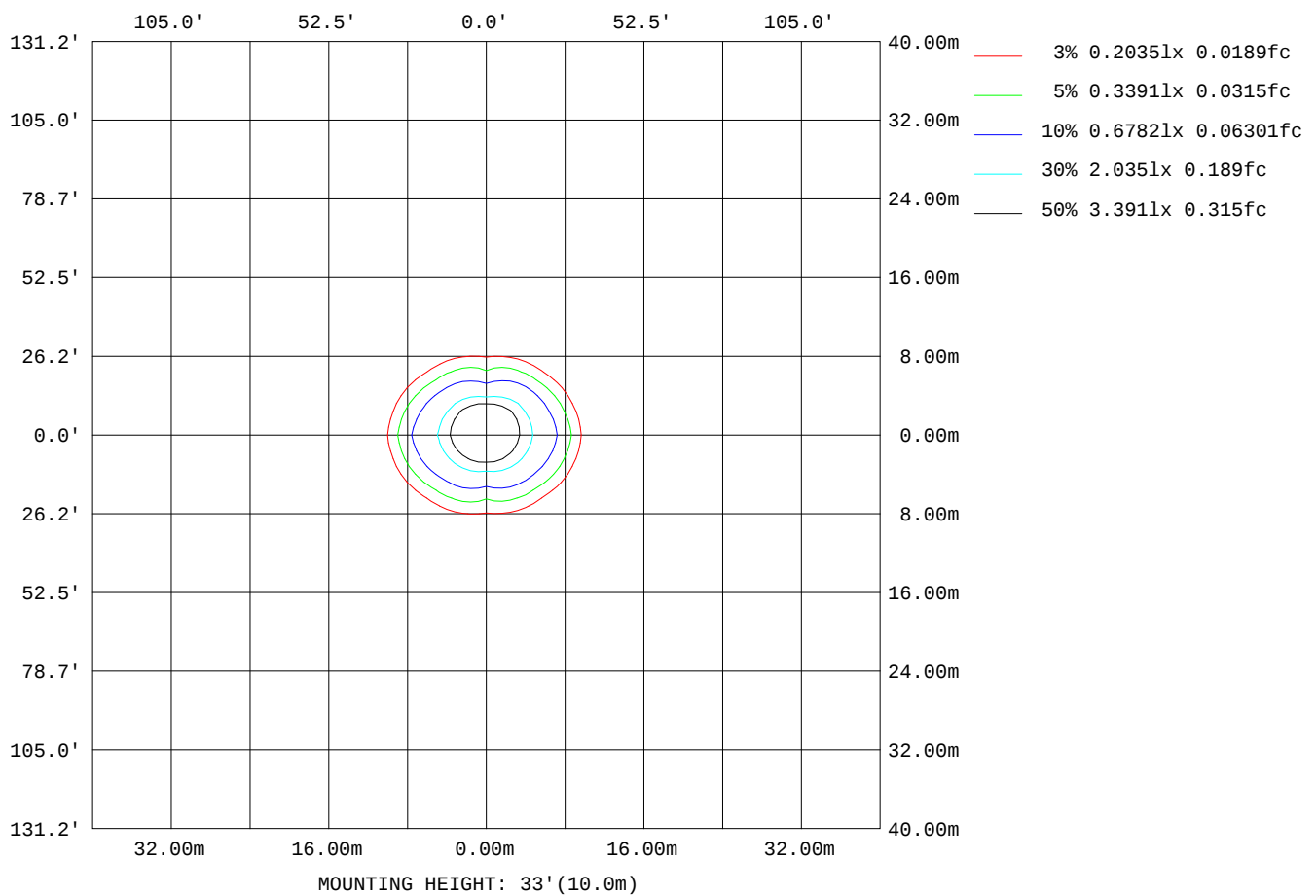
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.250m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2023-02-14

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.250m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:

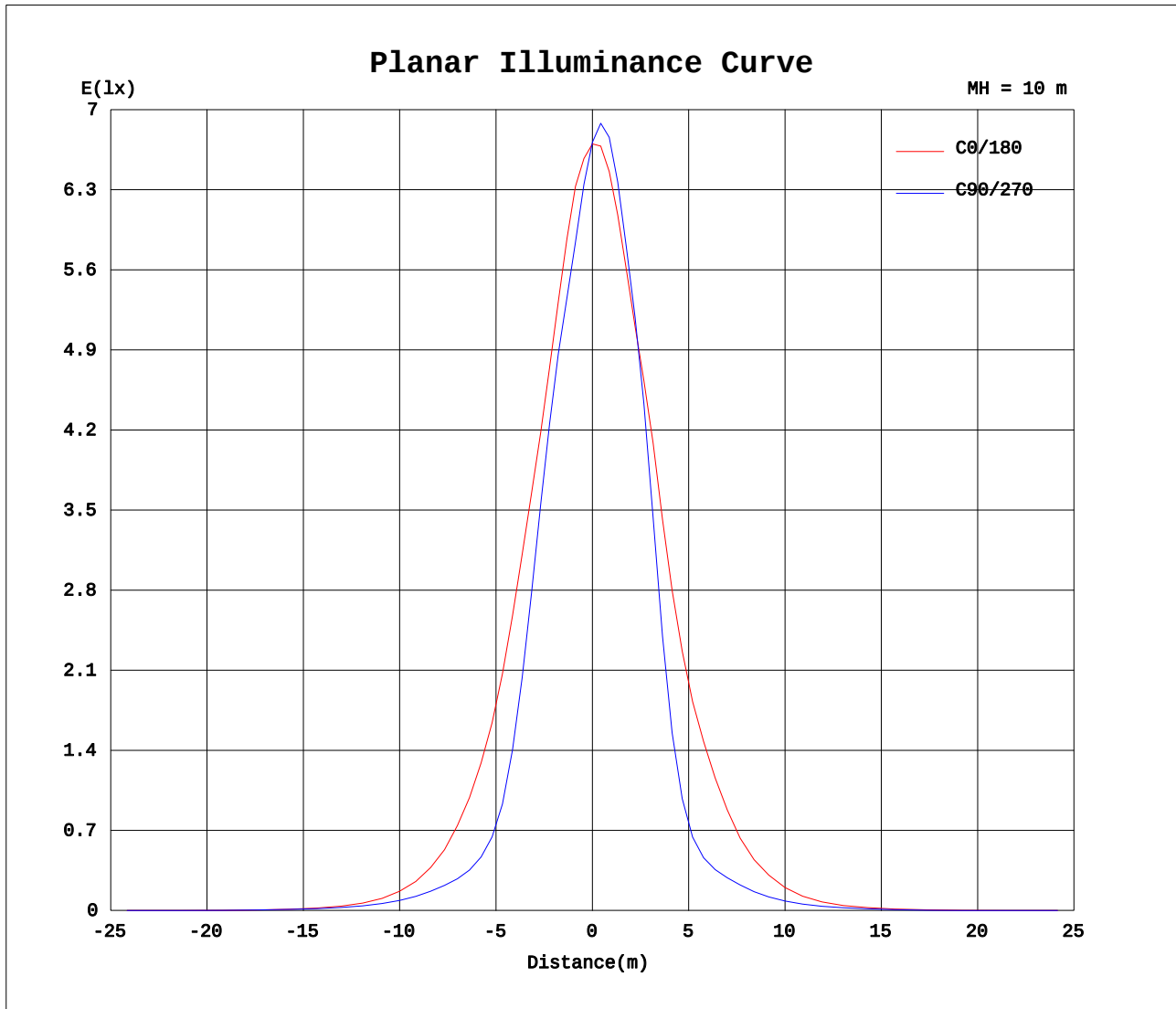
AvgL	cd/m2
L_0~180(65)av	448
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	180
L_90~270(75)av	0
L_90~270(85)av	0
L_45(65)av	1604
L_45(75)av	0
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.250m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2023-02-14

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.250m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.61V I:0.1301A P:12.630W PF:0.4401 Freq:50.01Hz Lamp Flux:394.078x1 lm		
NAME: MTHSA601251-BK3K10	TYPE:	WEIGHT:
SPEC.: black RA90	DIM.:	SERIAL No.:
MFR.:	SUR.: 130*25mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	45	90	135	180	225	270	315										
0	670	670	672	676	670	670	672	676										
5	640	603	591	620	653	682	684	667										
10	558	512	510	522	587	613	607	596										
15	464	419	395	432	514	521	492	504										
20	375	319	246	329	412	395	289	389										
25	278	216	125	222	305	248	131	257										
30	199	130	72.2	136	228	144	71.1	151										
35	135	75.3	50.5	82.3	160	83.1	52.2	83.7										
40	83.7	48.3	37.8	53.5	99.2	53.4	36.9	50.8										
45	47.9	34.1	25.3	37.8	56.9	37.8	23.6	34.6										
50	24.7	23.3	15.7	26.5	28.5	25.1	14.2	22.5										
55	11.6	13.4	9.36	15.3	13.7	13.8	8.22	12.3										
60	4.28	6.49	4.29	7.46	5.13	6.50	3.05	5.60										
65	0.53	2.36	0.49	2.86	0.70	2.00	0.00	1.60										
70	0.00	0.04	0.00	0.19	0.00	0.00	0.00	0.00										
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
95	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00										
100	0.06	0.07	0.00	0.05	0.01	0.00	0.00	0.00										
105	0.14	0.14	0.05	0.11	0.04	0.00	0.01	0.00										
110	0.23	0.23	0.10	0.19	0.10	0.01	0.03	0.05										
115	0.35	0.36	0.23	0.30	0.18	0.06	0.07	0.12										
120	0.51	0.52	0.40	0.46	0.28	0.16	0.16	0.22										
125	0.68	0.71	0.62	0.65	0.40	0.27	0.27	0.34										
130	0.86	0.90	0.83	0.84	0.54	0.40	0.43	0.52										
135	1.01	1.09	1.05	1.04	0.69	0.56	0.60	0.65										
140	1.16	1.23	1.22	1.21	0.83	0.74	0.79	0.80										
145	1.24	1.35	1.36	1.34	0.97	0.92	0.97	0.95										
150	1.30	1.39	1.44	1.41	1.07	1.06	1.12	1.04										
155	1.32	1.39	1.45	1.40	1.09	1.17	1.19	1.10										
160	1.29	1.30	1.44	1.33	1.09	1.17	1.18	1.10										
165	1.21	1.20	1.31	1.22	1.08	1.17	1.16	1.10										
170	1.13	1.10	1.14	1.13	1.04	1.11	1.04	1.06										
175	1.05	1.02	1.01	1.03	1.02	1.06	0.99	1.02										
180	1.05	1.02	0.99	1.01	1.03	1.02	0.99	1.01										

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