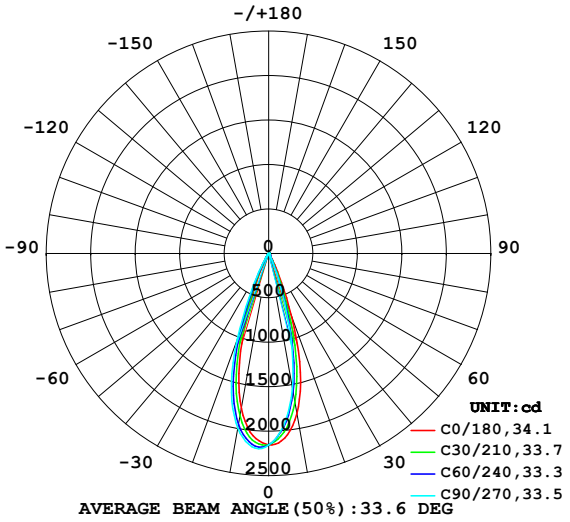
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

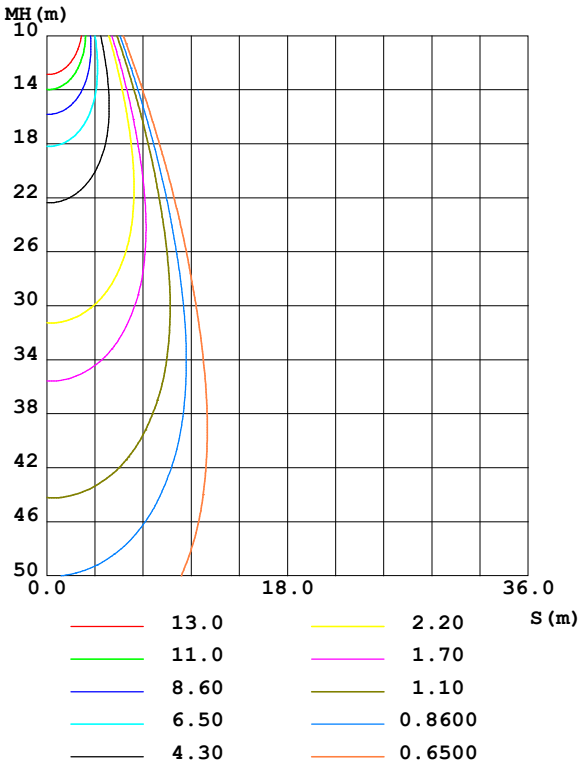
DATA OF LAMP		PHOTOMETRIC DATA		Eff: 89.53 lm/W	
MODEL	MSD40	Imax(cd)	2199	S/MH(C0/180)	0.51
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	0.59
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	706.84	η UP,DN(C0-180)	0.2,44.9
NOMINAL FLUX(lm)	706.836	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.2,54.7
LAMPS INSIDE	1	η up(%)	0.4	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	99.6	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):33.6 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1832	1647	1549	1780	1770	1899	1996	1804	0- 10	188.0	188.0	26.6,26.6
20	762.5	500.9	388.9	673.1	635.0	862.7	1045	716.2	10- 20	346.3	534.2	75.6,75.6
30	94.50	57.79	49.21	80.65	76.73	106.3	145.5	87.88	20- 30	131.9	666.1	94.2,94.2
40	21.89	16.50	14.55	19.53	19.41	22.47	27.56	20.31	30- 40	25.79	691.9	97.9,97.9
50	6.204	4.982	4.000	5.565	5.751	6.746	8.439	5.584	40- 50	9.023	700.9	99.2,99.2
60	1.087	0.3890	0.2818	0.7282	0.5647	1.348	1.641	0.7261	50- 60	2.607	703.5	99.5,99.5
70	0.1107	0.0715	0.0863	0.0741	0.0748	0.1325	0.1004	0.1095	60- 70	0.2699	703.8	99.6,99.6
80	0.0606	0.0429	0.0503	0.0424	0.0428	0.0644	0.0431	0.0565	70- 80	0.0711	703.9	99.6,99.6
90	0.0463	0.0429	0.0431	0.0424	0.0463	0.0465	0.0431	0.0424	80- 90	0.0504	703.9	99.6,99.6
100	0.0428	0.0429	0.0431	0.0459	0.0463	0.0465	0.0467	0.0424	90-100	0.0481	704.0	99.6,99.6
110	0.0428	0.0608	0.0431	0.0494	0.0570	0.0465	0.0503	0.0424	100-110	0.0488	704.0	99.6,99.6
120	0.0428	0.0788	0.0646	0.0777	0.0891	0.0536	0.0754	0.0564	110-120	0.0533	704.1	99.6,99.6
130	0.1067	0.1684	0.1649	0.1484	0.2070	0.1251	0.1474	0.1481	120-130	0.0870	704.1	99.6,99.6
140	0.4128	0.5410	0.6135	0.4842	0.6103	0.4397	0.4101	0.5149	130-140	0.2224	704.4	99.7,99.7
150	1.186	1.368	1.551	1.286	1.434	1.209	1.097	1.302	140-150	0.5330	704.9	99.7,99.7
160	2.387	2.410	2.740	2.501	2.507	2.258	2.143	2.259	150-160	0.8388	705.7	99.8,99.8
170	3.204	2.913	3.463	3.273	3.194	3.081	3.058	2.898	160-170	0.7877	706.5	100,100
180	3.179	3.167	3.266	3.163	3.162	3.156	3.237	3.131	170-180	0.3064	706.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 697.56 lm

%lum = 98.7%
%lamp = 98.7%

Conical surface Flux(120deg): 703.52 lm

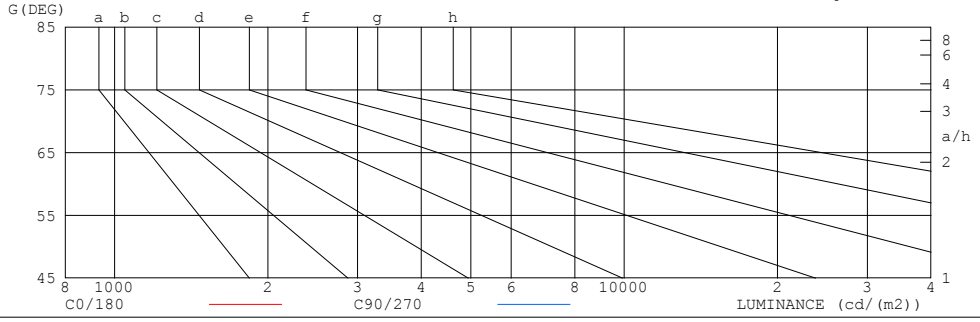
%lum = 99.5%
%lamp = 99.5%

LUMINANCE LIMITATION CURVES

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz **Lamp Flux:706.836x1 lm**		
NAME: MSD	**TYPE: LED**	**WEIGHT: 0.25 kg**
SPEC.: 8W	**DIM.: Ø:40 , H:100mm**	**SERIAL No.:**
MFR.: LITPA AYDINLATMA	**SUR.:**	**Shielding Angle:**

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	6	5
80	3	3
75	3	2
70	3	3
65	5	3
60	22	6
55	51	29
50	96	62
45	173	111

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

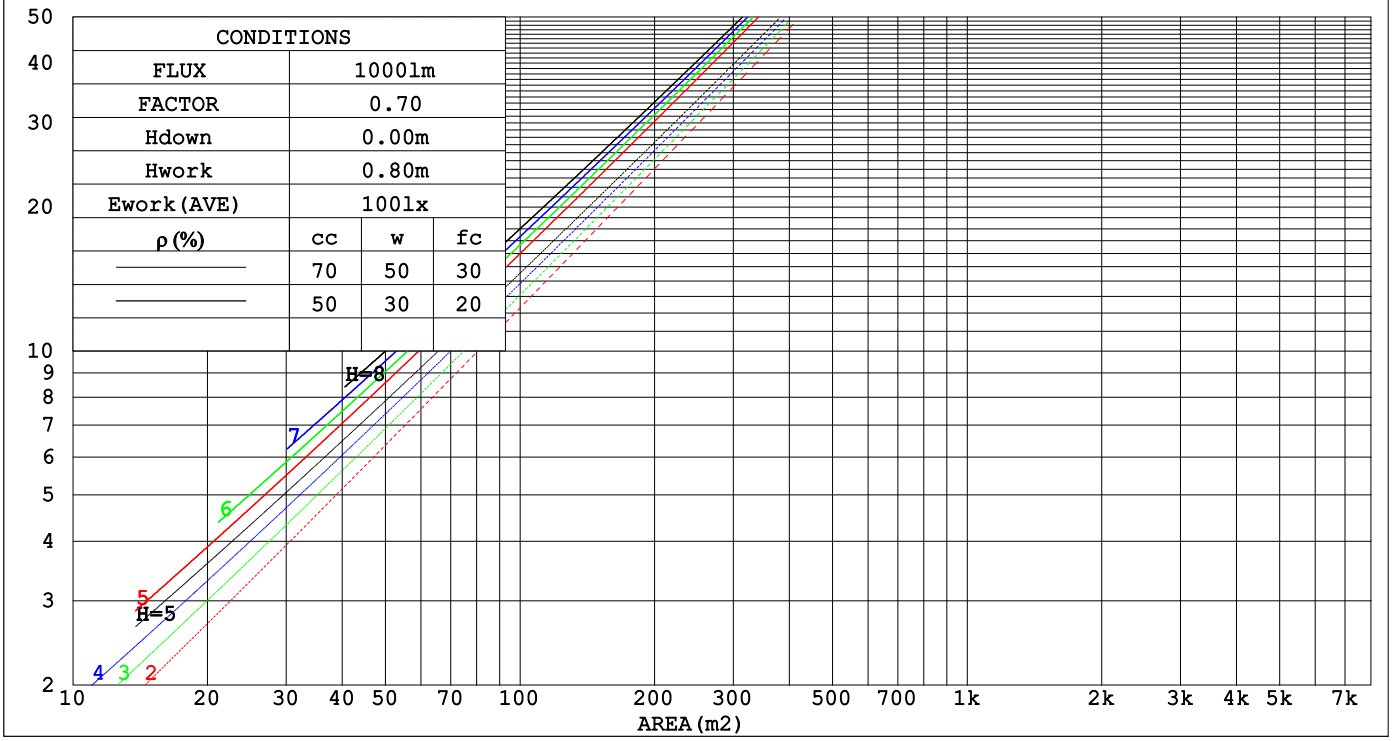
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

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	1.02	1.02	1.02	.00
1.0	1.12	1.10	1.09	1.10	1.09	1.07	1.06	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96
2.0	1.07	1.04	1.01	1.05	1.02	.00	1.02	.00	.98	.99	.97	.96	.96	.95	.94	.92
3.0	1.02	.98	.95	1.01	.97	.94	.98	.95	.93	.96	.93	.91	.93	.92	.90	.89
4.0	.97	.93	.90	.96	.93	.90	.94	.91	.89	.92	.90	.87	.91	.88	.86	.85
5.0	.94	.89	.86	.93	.89	.86	.91	.87	.85	.89	.86	.84	.88	.85	.83	.82
6.0	.90	.85	.82	.89	.85	.82	.88	.84	.81	.86	.83	.81	.85	.83	.80	.79
7.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.83	.80	.78	.77
8.0	.84	.79	.76	.83	.79	.76	.82	.78	.76	.81	.78	.75	.80	.77	.75	.74
9.0	.81	.76	.73	.80	.76	.73	.79	.76	.73	.79	.75	.73	.78	.75	.73	.72
10.0	.78	.74	.71	.78	.74	.71	.77	.73	.71	.76	.73	.71	.76	.73	.70	.69

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

WEC AND CCEC

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

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	.143	.081	.026	.137	.078	.025	.124	.071	.023	.112	.065	.021	.101	.059	.019	
2.0	.133	.073	.022	.128	.070	.022	.117	.065	.020	.108	.060	.019	.099	.056	.018	
3.0	.125	.067	.020	.120	.064	.019	.112	.060	.018	.103	.057	.017	.096	.053	.016	
4.0	.118	.061	.018	.114	.059	.018	.106	.056	.017	.099	.053	.016	.093	.050	.015	
5.0	.111	.057	.016	.108	.055	.016	.101	.053	.016	.095	.050	.015	.090	.048	.014	
6.0	.106	.053	.015	.103	.052	.015	.097	.050	.014	.092	.048	.014	.087	.046	.014	
7.0	.101	.050	.014	.098	.049	.014	.093	.047	.014	.089	.045	.013	.084	.044	.013	
8.0	.096	.047	.013	.094	.046	.013	.090	.045	.013	.086	.043	.012	.082	.042	.012	
9.0	.092	.045	.012	.090	.044	.012	.086	.043	.012	.083	.041	.012	.079	.040	.012	
10.0	.088	.042	.012	.087	.042	.012	.083	.041	.011	.080	.040	.011	.077	.039	.011	

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	.194	.194	.194	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.172	.161	.151	.147	.138	.130	.101	.095	.090	.058	.055	.052	.019	.018	.017	
2.0	.154	.136	.120	.132	.117	.104	.091	.081	.073	.052	.047	.043	.017	.015	.014	
3.0	.140	.117	.098	.120	.101	.085	.082	.070	.060	.048	.041	.035	.015	.013	.012	
4.0	.128	.101	.081	.110	.088	.070	.075	.061	.050	.044	.036	.029	.014	.012	.010	
5.0	.118	.089	.068	.101	.077	.059	.070	.054	.042	.040	.032	.025	.013	.010	.008	
6.0	.109	.079	.058	.094	.069	.050	.065	.048	.036	.037	.028	.021	.012	.009	.007	
7.0	.102	.071	.050	.087	.062	.043	.060	.043	.031	.035	.025	.018	.011	.008	.006	
8.0	.095	.065	.043	.082	.056	.038	.057	.039	.027	.033	.023	.016	.011	.008	.005	
9.0	.090	.059	.038	.077	.051	.033	.054	.036	.024	.031	.021	.014	.010	.007	.005	
10.0	.085	.054	.034	.073	.047	.030	.051	.033	.021	.030	.020	.013	.010	.006	.004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

UGR(Unified Glare Rating) Table

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	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	-3.5	-2.8	-3.3	-2.6	-2.5	-5.6	-4.9	-5.4	-4.8	-4.6
3H	-3.6	-3.0	-3.4	-2.8	-2.6	-5.8	-5.1	-5.5	-4.9	-4.7
4H	-3.7	-3.1	-3.4	-2.9	-2.6	-5.8	-5.2	-5.6	-5.0	-4.8
6H	-3.8	-3.2	-3.5	-3.0	-2.7	-5.9	-5.4	-5.6	-5.1	-4.9
8H	-3.8	-3.3	-3.5	-3.0	-2.8	-6.0	-5.4	-5.7	-5.2	-4.9
12H	-3.9	-3.3	-3.6	-3.1	-2.8	-6.0	-5.5	-5.7	-5.2	-4.9
4H 2H	-3.7	-3.1	-3.4	-2.9	-2.6	-5.8	-5.2	-5.6	-5.0	-4.8
3H	-3.9	-3.3	-3.5	-3.1	-2.8	-6.0	-5.5	-5.7	-5.2	-4.9
4H	-4.0	-3.5	-3.6	-3.2	-2.9	-6.1	-5.6	-5.7	-5.3	-5.0
6H	-4.1	-3.6	-3.7	-3.3	-2.9	-6.2	-5.8	-5.8	-5.4	-5.1
8H	-4.1	-3.7	-3.7	-3.4	-3.0	-6.2	-5.8	-5.8	-5.5	-5.1
12H	-4.2	-3.8	-3.8	-3.4	-3.0	-6.3	-5.9	-5.9	-5.5	-5.2
8H 4H	-4.1	-3.7	-3.7	-3.4	-3.0	-6.2	-5.8	-5.9	-5.5	-5.1
6H	-4.2	-3.9	-3.8	-3.5	-3.1	-6.4	-6.0	-5.9	-5.6	-5.2
8H	-4.3	-4.0	-3.8	-3.6	-3.1	-6.4	-6.1	-6.0	-5.7	-5.2
12H	-4.3	-4.1	-3.9	-3.6	-3.2	-6.5	-6.2	-6.0	-5.8	-5.3
12H 4H	-4.2	-3.8	-3.8	-3.4	-3.0	-6.3	-5.9	-5.9	-5.6	-5.2
6H	-4.3	-4.0	-3.8	-3.6	-3.1	-6.4	-6.1	-6.0	-5.7	-5.2
8H	-4.3	-4.1	-3.9	-3.6	-3.2	-6.5	-6.2	-6.0	-5.8	-5.3

Variations with the observer position at spacings(CIE Pub.117):		
S = 1.0H	+ 3.6 / - 9.2	+ 2.6 / -12.0
1.5H	+ 5.0 / - 7.3	+ 3.9 / - 7.3
2.0H	+ 6.2 / -14.8	+ 5.5 / -13.3

CIE Pub.117, 706.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

UTILIZATION FACTORS TABLE

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

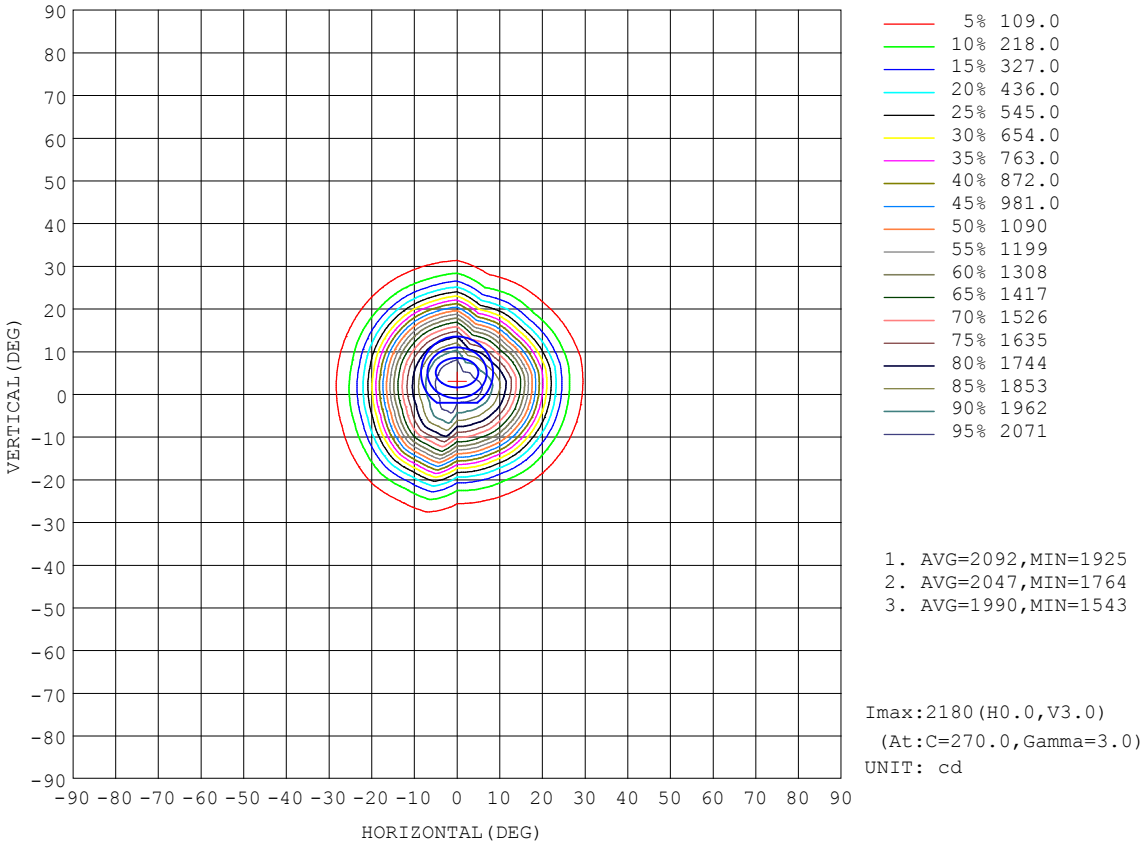
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	90	84	81	90	84	81	89	84	81	77
0.80	97	92	89	97	92	88	95	91	88	85
1.00	101	96	93	100	96	92	99	95	92	88
1.25	105	100	97	104	99	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	110	106	103	108	105	102	105	103	100	95
2.50	111	108	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	99
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:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

ISOCANDELA DIAGRAM

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



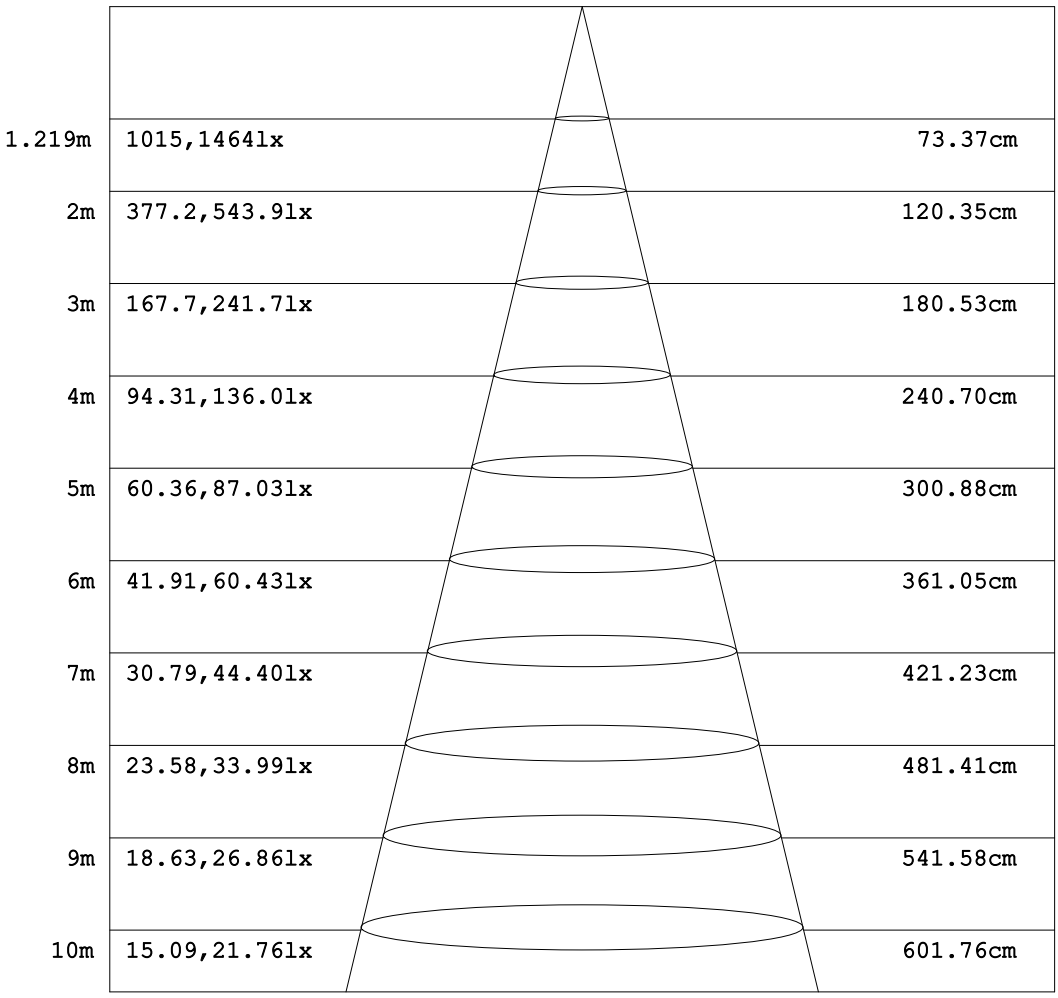
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

AAI Figure

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Flux out:443.1 lm



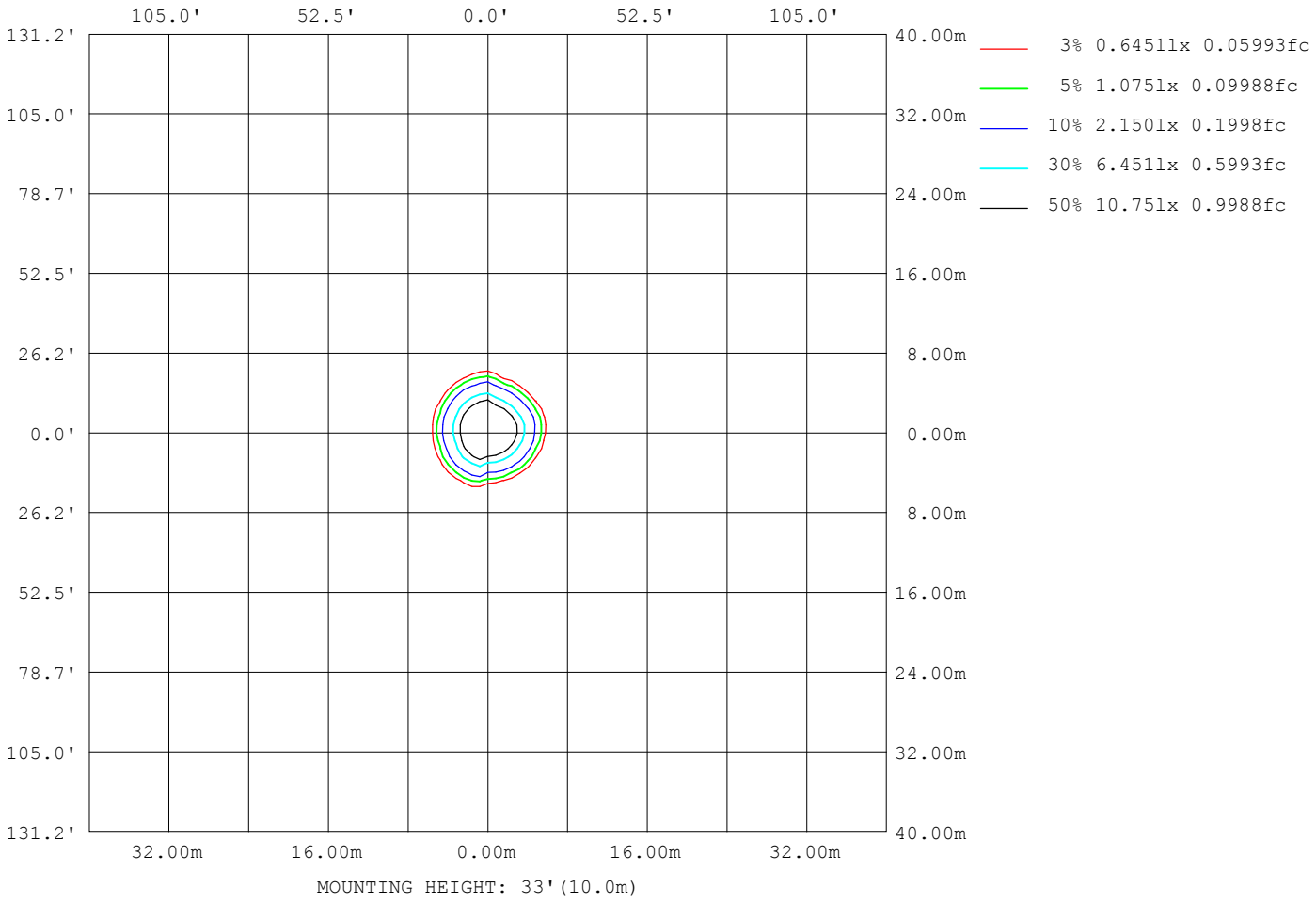
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

ISOLUX DIAGRAM

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz **Lamp Flux:706.836x1 lm**		
NAME: MSD	**TYPE: LED**	**WEIGHT: 0.25 kg**
SPEC.: 8W	**DIM.: Ø:40 , H:100mm**	**SERIAL No.:**
MFR.: LITPA AYDINLATMA	**SUR.:**	**Shielding Angle:**



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

LED Avg.L Report

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

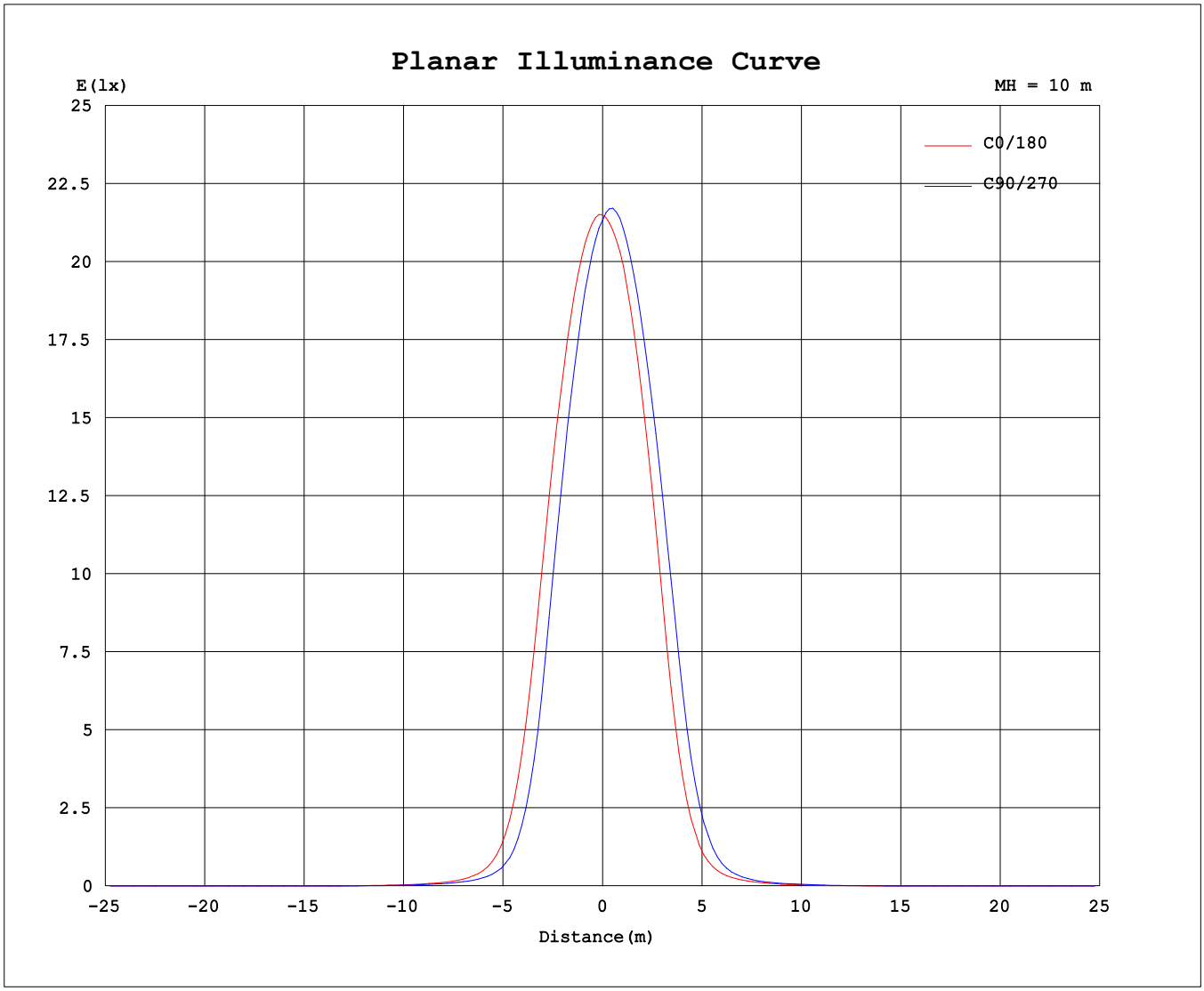
AvgL	cd/m2
L_0~180(65)av	4
L_0~180(75)av	2
L_0~180(85)av	5
L_90~270(65)av	5
L_90~270(75)av	3
L_90~270(85)av	5
L_45(65)av	4
L_45(75)av	2
L_45(85)av	5

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152	2152
5	2084	2058	2016	1985	1959	1951	1944	2040	2033	2052	2046	2032	2057	2082	2107	2124	2153	2167	2182
10	1832	1779	1701	1647	1587	1566	1549	1750	1740	1780	1755	1728	1770	1810	1859	1899	1954	1967	1996
15	1383	1300	1195	1108	1015	978	962	1275	1252	1303	1264	1220	1274	1333	1413	1475	1548	1580	1623
20	763	672	578	501	424	399	389	659	626	673	631	589	635	688	782	863	942	978	1045
25	288	249	195	165	136	129	123	240	220	248	221	212	232	250	294	335	379	401	448
30	94.5	80.1	64.7	57.8	51.7	50.3	49.2	78.1	74.1	80.6	75.2	71.6	76.7	82.1	92.0	106	120	129	146
35	41.3	36.3	30.9	28.4	26.6	26.0	25.4	35.7	34.4	36.6	34.8	33.6	35.7	37.3	39.7	42.1	47.6	50.2	54.9
40	21.9	20.0	17.7	16.5	15.4	15.0	14.5	19.3	18.6	19.5	18.8	18.2	19.4	20.3	21.4	22.5	24.6	25.8	27.6
45	12.3	11.5	10.2	9.49	8.70	8.36	7.92	10.9	10.5	11.0	10.5	10.2	11.0	11.6	12.5	13.0	14.1	14.8	15.6
50	6.20	5.94	5.46	4.98	4.58	4.29	4.00	5.74	5.45	5.56	5.48	5.35	5.75	6.04	6.47	6.75	7.47	7.85	8.44
55	2.94	2.86	2.34	2.07	1.76	1.76	1.68	2.62	2.50	2.79	2.48	2.28	2.53	2.84	3.07	3.26	3.68	3.93	4.34
60	1.09	0.72	0.49	0.39	0.34	0.27	0.28	0.97	0.82	0.73	0.57	0.48	0.56	0.73	1.17	1.35	1.55	1.60	1.64
65	0.20	0.15	0.17	0.12	0.15	0.10	0.14	0.15	0.18	0.16	0.18	0.14	0.16	0.21	0.19	0.24	0.24	0.30	0.30
70	0.11	0.07	0.10	0.07	0.09	0.07	0.09	0.07	0.11	0.07	0.11	0.07	0.07	0.12	0.09	0.13	0.10	0.14	0.10
75	0.08	0.05	0.07	0.04	0.07	0.04	0.06	0.04	0.07	0.05	0.07	0.05	0.05	0.08	0.05	0.09	0.06	0.09	0.08
80	0.06	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.06	0.04	0.06	0.04	0.04	0.06	0.04	0.06	0.05	0.06	0.04
85	0.05	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.05	0.04	0.05	0.04	0.04	0.05	0.04	0.06	0.05	0.05	0.04
90	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.04
95	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.05	0.05	0.04
100	0.04	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.04	0.05	0.05	0.05	0.04	0.05
105	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.04	0.05
110	0.04	0.05	0.04	0.06	0.04	0.06	0.04	0.05	0.04	0.05	0.04	0.05	0.06	0.04	0.05	0.05	0.05	0.04	0.05
115	0.04	0.06	0.04	0.06	0.04	0.06	0.04	0.06	0.04	0.05	0.04	0.06	0.07	0.04	0.07	0.05	0.06	0.04	0.06
120	0.04	0.07	0.05	0.08	0.05	0.08	0.06	0.07	0.05	0.08	0.05	0.08	0.09	0.06	0.08	0.05	0.07	0.04	0.08
125	0.07	0.10	0.07	0.11	0.08	0.11	0.09	0.10	0.07	0.10	0.08	0.11	0.12	0.08	0.11	0.08	0.10	0.08	0.09
130	0.11	0.15	0.12	0.17	0.14	0.19	0.16	0.14	0.12	0.15	0.12	0.16	0.21	0.15	0.17	0.13	0.15	0.11	0.15
135	0.20	0.25	0.25	0.30	0.30	0.34	0.33	0.26	0.24	0.27	0.24	0.29	0.36	0.30	0.29	0.23	0.25	0.20	0.23
140	0.41	0.47	0.47	0.54	0.55	0.62	0.61	0.47	0.46	0.48	0.48	0.54	0.61	0.53	0.51	0.44	0.44	0.39	0.41
145	0.74	0.81	0.83	0.91	0.94	1.01	1.03	0.81	0.81	0.83	0.83	0.89	0.98	0.89	0.84	0.77	0.74	0.70	0.69
150	1.19	1.26	1.29	1.37	1.44	1.51	1.55	1.27	1.27	1.29	1.30	1.36	1.43	1.34	1.29	1.21	1.17	1.10	1.10
155	1.73	1.83	1.83	1.88	2.03	2.10	2.15	1.84	1.86	1.85	1.88	1.96	1.98	1.88	1.80	1.72	1.67	1.59	1.59
160	2.39	2.48	2.39	2.41	2.61	2.70	2.74	2.48	2.52	2.50	2.54	2.60	2.51	2.40	2.35	2.26	2.22	2.15	2.14
165	2.84	2.93	2.67	2.68	2.86	3.13	3.17	2.94	2.93	2.93	2.92	2.98	2.92	2.83	2.80	2.73	2.73	2.68	2.67
170	3.20	3.28	3.05	2.91	2.93	3.42	3.46	3.30	3.27	3.27	3.25	3.30	3.19	3.13	3.12	3.08	3.11	3.07	3.06
175	3.43	3.46	3.34	3.09	3.06	3.50	3.58	3.50	3.45	3.46	3.45	3.48	3.11	3.10	3.08	3.08	3.10	3.12	3.14
180	3.18	3.17	3.17	3.17	3.13	3.22	3.27	3.20	3.18	3.16	3.17	3.17	3.16	3.17	3.17	3.16	3.13	3.22	3.24

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.45V I:0.1140A P:7.8951W PF:0.3004 Freq:50.01Hz Lamp Flux:706.836x1 lm		
NAME: MSD	TYPE: LED	WEIGHT: 0.25 kg
SPEC.: 8W	DIM.: Ø:40 , H:100mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C (DEG)	285	300	315	330	345														
0	2152	2152	2152	2152	2152														
5	2065	2078	2069	2088	2101														
10	1789	1815	1804	1846	1878														
15	1318	1360	1341	1406	1450														
20	698	741	716	787	836														
25	257	279	268	306	332														
30	83.8	90.4	87.9	99.7	111														
35	36.8	39.3	38.4	42.0	44.1														
40	19.8	20.8	20.3	21.7	22.6														
45	11.1	11.6	11.2	12.0	12.5														
50	5.79	5.97	5.58	5.87	6.15														
55	2.58	2.85	2.84	2.94	3.03														
60	0.67	0.75	0.73	1.06	1.23														
65	0.19	0.18	0.19	0.18	0.22														
70	0.11	0.08	0.11	0.08	0.12														
75	0.07	0.05	0.07	0.05	0.08														
80	0.06	0.04	0.06	0.04	0.06														
85	0.05	0.04	0.05	0.04	0.05														
90	0.05	0.04	0.04	0.04	0.05														
95	0.04	0.05	0.04	0.05	0.05														
100	0.04	0.05	0.04	0.05	0.04														
105	0.04	0.05	0.04	0.05	0.04														
110	0.04	0.06	0.04	0.06	0.04														
115	0.04	0.06	0.04	0.06	0.04														
120	0.06	0.08	0.06	0.08	0.05														
125	0.08	0.12	0.08	0.12	0.07														
130	0.15	0.18	0.15	0.18	0.14														
135	0.29	0.30	0.30	0.30	0.26														
140	0.51	0.53	0.51	0.52	0.48														
145	0.86	0.87	0.86	0.86	0.82														
150	1.30	1.31	1.30	1.30	1.26														
155	1.82	1.78	1.81	1.81	1.78														
160	2.36	2.25	2.26	2.34	2.32														
165	2.69	2.60	2.62	2.83	2.79														
170	2.83	2.84	2.90	3.15	3.11														
175	3.01	3.02	3.04	3.10	3.10														
180	3.17	3.18	3.13	3.15	3.14														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3¡æ
Operators:LITPA
Test Date:02/09/2025

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.459
Humidity:55.0%
Test Distance:7.000m [K=1.0000]
Remarks: MSD40 8W