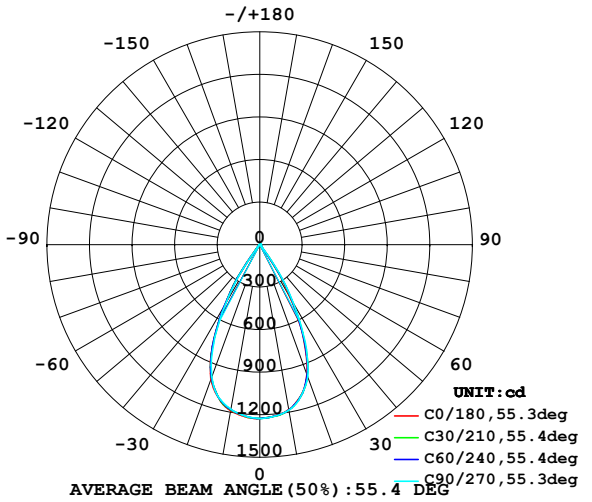
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

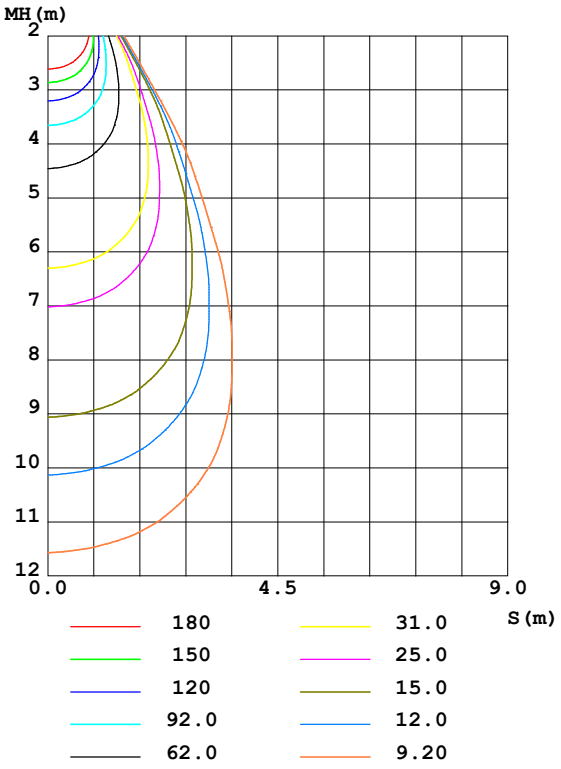
DATA OF LAMP		PHOTOMETRIC DATA Eff: 94.80 lm/W			
MCR-3 (10W, 60°)		Imax(cd)	1227	S/MH(C0/180)	0.83
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	927.30	η UP,DN(C0-180)	0.7,49.0
NOMINAL FLUX(lm)	927.302	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,49.8
LAMPS INSIDE	1	η up(%)	1.3	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	η down(%)	98.7	CIBSE SHR MAX	0.85

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):55.4 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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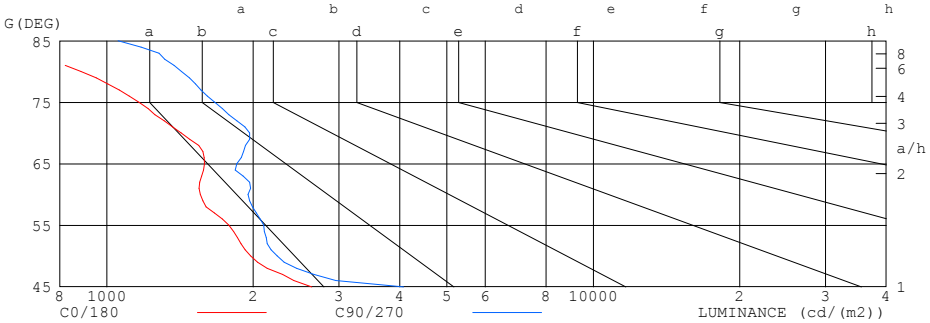
ZONAL FLUX DIAGRAM
AND LUMINANCE LIMITATION CURVES

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1182	1185	1185	1185	1189	1182	1179	1185	0- 10	115.0	115.0	12.4,12.4
20	972.6	979.3	989.5	998.6	1009	997.8	990.0	987.3	10- 20	310.6	425.6	45.9,45.9
30	428.5	451.3	464.7	477.0	499.3	499.9	484.9	462.2	20- 30	341.6	767.1	82.7,82.7
40	27.52	30.16	36.54	41.90	42.55	36.92	33.78	31.20	30- 40	127.9	895.1	96.5,96.5
50	5.683	6.041	6.482	6.377	6.306	6.121	5.862	5.696	40- 50	10.73	905.8	97.7,97.7
60	3.485	3.846	4.395	4.421	4.209	3.907	3.815	3.523	50- 60	4.482	910.3	98.2,98.2
70	2.180	2.487	3.026	2.972	2.687	2.592	2.452	2.106	60- 70	3.208	913.5	98.5,98.5
80	0.6883	0.7937	1.113	1.025	0.9008	0.8813	0.8810	0.6772	70- 80	1.735	915.2	98.7,98.7
90	0	0	0	0	0	0	0.0001	0	80- 90	0.3382	915.6	98.7,98.7
100	0	0.0159	0.0317	0.0091	0	0	0	0.0000	90-100	0.0008	915.6	98.7,98.7
110	0.3809	0.4147	0.4022	0.3545	0.0900	0.0789	0.0767	0.0973	100-110	0.0928	915.6	98.7,98.7
120	1.305	1.316	1.296	1.239	0.5979	0.6042	0.6358	0.6594	110-120	0.5438	916.2	98.8,98.8
130	2.634	2.633	2.597	2.538	1.640	1.655	1.714	1.734	120-130	1.349	917.5	98.9,98.9
140	4.160	4.173	4.135	4.080	3.050	3.064	3.122	3.157	130-140	2.207	919.7	99.2,99.2
150	5.534	5.519	5.520	5.448	4.464	4.428	4.494	4.507	140-150	2.703	922.5	99.5,99.5
160	6.227	6.195	6.242	6.169	5.438	5.379	5.442	5.444	150-160	2.516	925.0	99.7,99.7
170	6.456	6.497	6.535	6.460	6.156	6.141	6.196	6.218	160-170	1.715	926.7	99.9,99.9
180	6.689	6.784	6.729	6.781	6.694	6.777	6.720	6.783	170-180	0.6199	927.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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	383	1055
80	885	1424
75	1163	1668
70	1423	1965
65	1587	1852
60	1556	1952
55	1782	2101
50	1974	2240
45	2637	4074

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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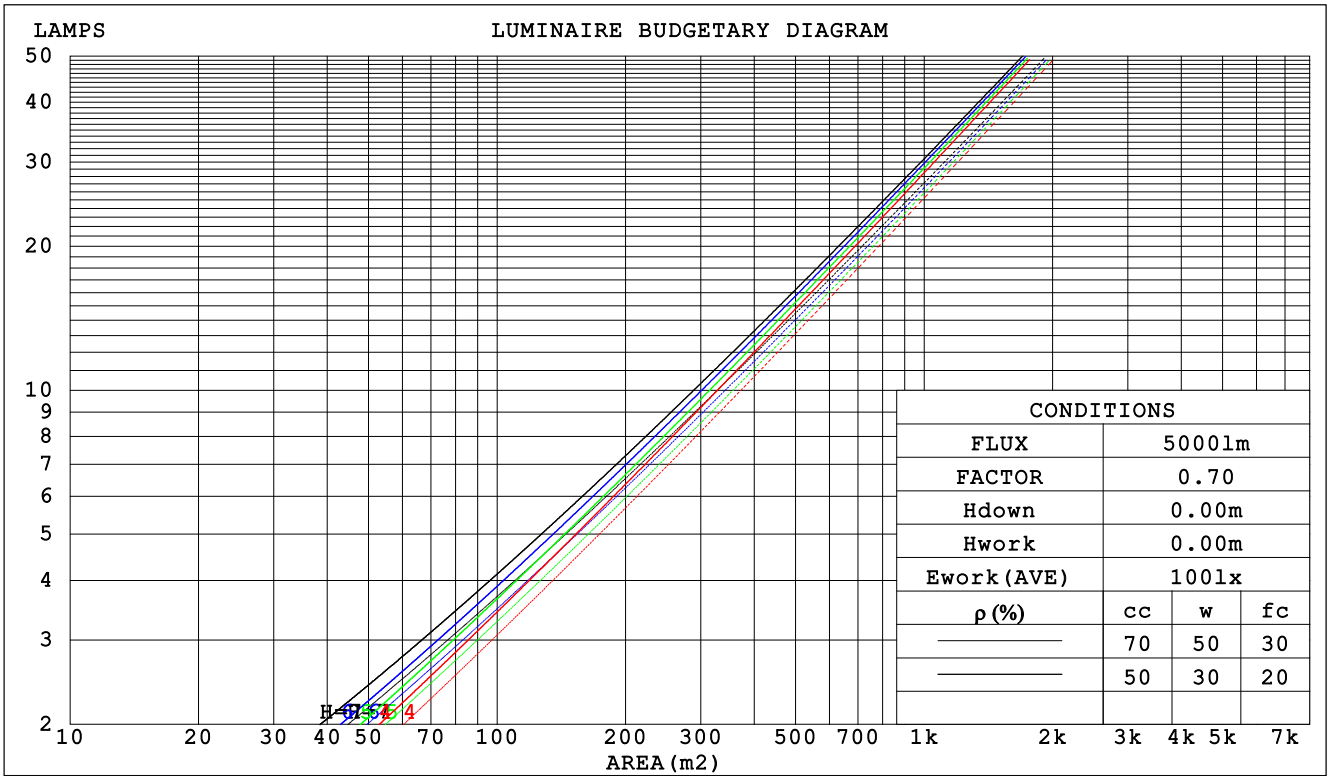
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION 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	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.04	1.03	1.01	1.01	.99	.98	.97	.96	.95	.93
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.93	.91	.93	.91	.89	.88
3.0	.98	.93	.89	.96	.92	.89	.93	.90	.87	.91	.88	.85	.88	.86	.84	.82
4.0	.92	.87	.83	.91	.86	.82	.88	.84	.81	.86	.83	.80	.84	.81	.79	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.79	.76	.82	.78	.75	.80	.77	.75	.73
6.0	.82	.76	.73	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.70	.69
7.0	.78	.72	.68	.77	.72	.68	.76	.71	.68	.74	.70	.67	.73	.69	.67	.65
8.0	.74	.68	.64	.73	.68	.64	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
9.0	.70	.65	.61	.69	.64	.61	.68	.64	.60	.67	.63	.60	.67	.63	.60	.59
10.0	.67	.61	.58	.66	.61	.58	.65	.61	.57	.64	.60	.57	.64	.60	.57	.56



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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WEC AND CCEC

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION 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	.168	.096	.030	.161	.092	.029	.148	.085	.027	.136	.078	.025	.124	.072	.023	
2.0	.160	.087	.027	.154	.085	.026	.142	.079	.025	.132	.074	.023	.123	.069	.022	
3.0	.151	.080	.024	.146	.078	.024	.137	.074	.022	.128	.070	.021	.120	.066	.020	
4.0	.144	.075	.022	.139	.073	.022	.131	.069	.021	.123	.066	.020	.116	.063	.019	
5.0	.137	.070	.020	.133	.068	.020	.126	.065	.019	.119	.063	.019	.113	.060	.018	
6.0	.131	.065	.019	.127	.064	.018	.121	.062	.018	.115	.060	.018	.109	.058	.017	
7.0	.125	.062	.018	.122	.061	.017	.116	.059	.017	.111	.057	.017	.106	.055	.016	
8.0	.120	.058	.016	.117	.058	.016	.112	.056	.016	.107	.054	.016	.103	.053	.015	
9.0	.115	.056	.016	.113	.055	.015	.108	.053	.015	.104	.052	.015	.100	.051	.015	
10.0	.110	.053	.015	.108	.052	.015	.104	.051	.014	.100	.050	.014	.097	.049	.014	

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	.200	.200	.200	.171	.171	.171	.117	.117	.117	.067	.067	.067	.021	.021	.021	
1.0	.180	.167	.155	.154	.143	.134	.105	.099	.092	.061	.057	.054	.019	.018	.017	
2.0	.164	.142	.124	.141	.123	.107	.096	.085	.075	.056	.049	.044	.018	.016	.014	
3.0	.151	.123	.101	.130	.106	.088	.089	.074	.061	.051	.043	.036	.017	.014	.012	
4.0	.141	.109	.084	.121	.094	.073	.083	.065	.051	.048	.038	.030	.015	.012	.010	
5.0	.132	.097	.071	.113	.084	.062	.078	.059	.044	.045	.034	.026	.015	.011	.009	
6.0	.124	.087	.061	.107	.076	.053	.074	.053	.038	.043	.031	.022	.014	.010	.007	
7.0	.117	.080	.053	.101	.069	.046	.070	.048	.033	.041	.029	.020	.013	.009	.006	
8.0	.112	.073	.047	.096	.064	.041	.067	.045	.029	.039	.026	.017	.013	.009	.006	
9.0	.107	.068	.042	.092	.059	.037	.064	.042	.026	.037	.025	.016	.012	.008	.005	
10.0	.102	.064	.038	.088	.055	.033	.061	.039	.024	.036	.023	.014	.012	.008	.005	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION 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	15.1	16.0	15.4	16.2	16.4	15.8	16.6	16.0	16.8	17.0
	3H	15.0	15.8	15.3	16.0	16.2	15.7	16.5	15.9	16.7	16.9
	4H	14.9	15.7	15.2	15.9	16.2	15.6	16.4	15.9	16.6	16.9
	6H	14.9	15.6	15.2	15.8	16.1	15.6	16.3	15.9	16.5	16.8
	8H	14.8	15.5	15.1	15.8	16.1	15.5	16.2	15.8	16.5	16.8
	12H	14.8	15.4	15.1	15.7	16.0	15.5	16.1	15.8	16.4	16.7
4H	2H	14.9	15.6	15.2	15.9	16.1	15.5	16.3	15.8	16.5	16.8
	3H	14.8	15.4	15.1	15.7	16.0	15.4	16.1	15.8	16.4	16.7
	4H	14.7	15.3	15.1	15.6	16.0	15.4	16.0	15.8	16.3	16.6
	6H	14.6	15.2	15.0	15.5	15.9	15.3	15.9	15.7	16.2	16.6
	8H	14.6	15.1	15.0	15.5	15.8	15.3	15.8	15.7	16.2	16.6
	12H	14.5	15.0	15.0	15.4	15.8	15.3	15.7	15.7	16.1	16.5
8H	4H	14.6	15.1	15.0	15.4	15.8	15.3	15.8	15.7	16.1	16.5
	6H	14.5	14.9	15.0	15.3	15.8	15.2	15.6	15.7	16.0	16.5
	8H	14.5	14.8	14.9	15.3	15.7	15.2	15.5	15.7	16.0	16.4
	12H	14.4	14.7	14.9	15.2	15.7	15.1	15.4	15.6	15.9	16.4
12H	4H	14.5	15.0	15.0	15.4	15.8	15.2	15.7	15.6	16.1	16.5
	6H	14.5	14.8	14.9	15.3	15.7	15.2	15.5	15.6	16.0	16.4
	8H	14.4	14.7	14.9	15.2	15.7	15.1	15.4	15.6	15.9	16.4

Variations with the observer position at spacings:		
S = 1.0H	+ 3.3 / - 3.2	+ 4.3 / - 3.8
1.5H	+ 5.6 / - 3.0	+ 6.8 / - 3.6
2.0H	+ 0.7 / - 0.6	+ 2.0 / - 0.5

CIE Pub.117 Corrected 927.3 lm Total Lamp Luminous Flux.(8log(F/F0) = -0.3)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
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Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
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Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION 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	89	84	80	89	83	80	88	83	80	76
0.80	96	91	88	96	91	87	95	90	87	84
1.00	100	95	92	100	95	91	98	94	91	87
1.25	104	99	96	103	99	96	101	97	95	90
1.50	107	102	99	105	101	98	103	100	97	93
2.00	109	105	102	107	104	101	105	102	99	94
2.50	111	107	104	109	106	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	103	96
4.00	114	111	109	112	110	108	108	106	105	97
5.00	115	113	111	113	111	110	109	107	106	98
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
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Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
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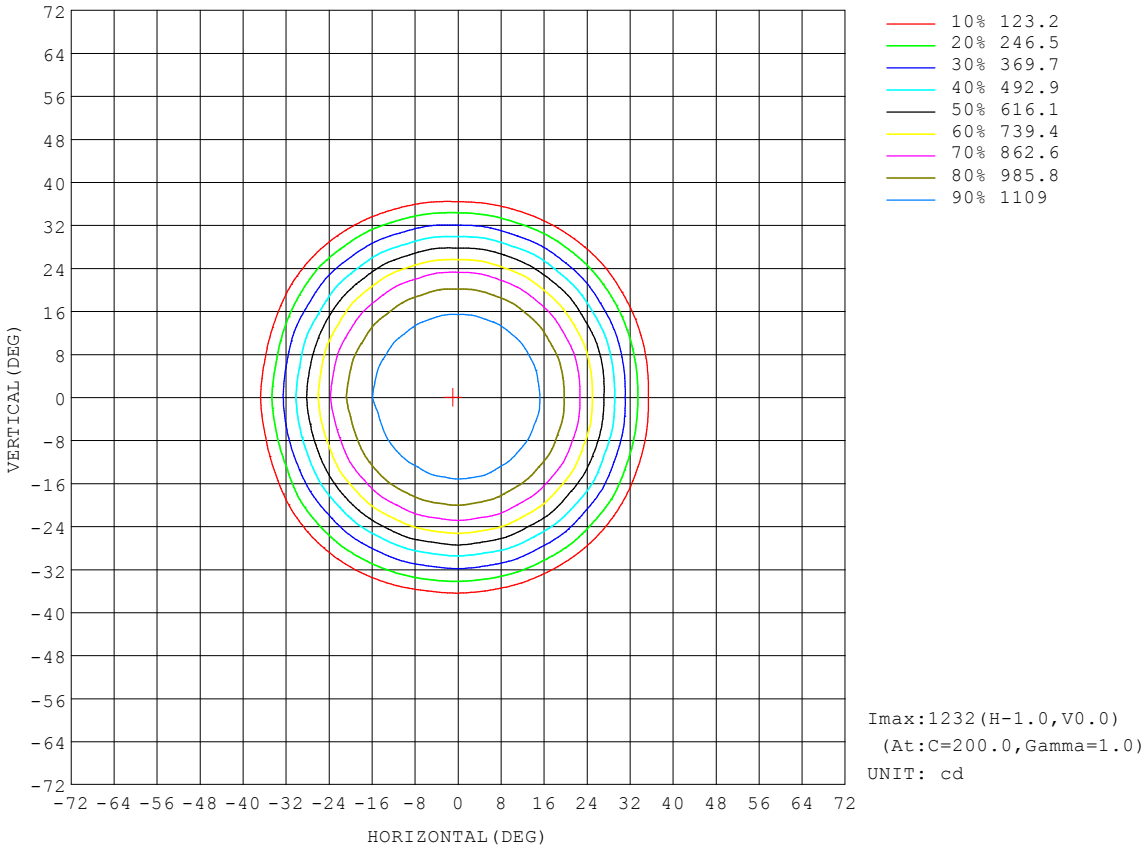
Remarks:

ISOCANDELA DIAGRAM

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:



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Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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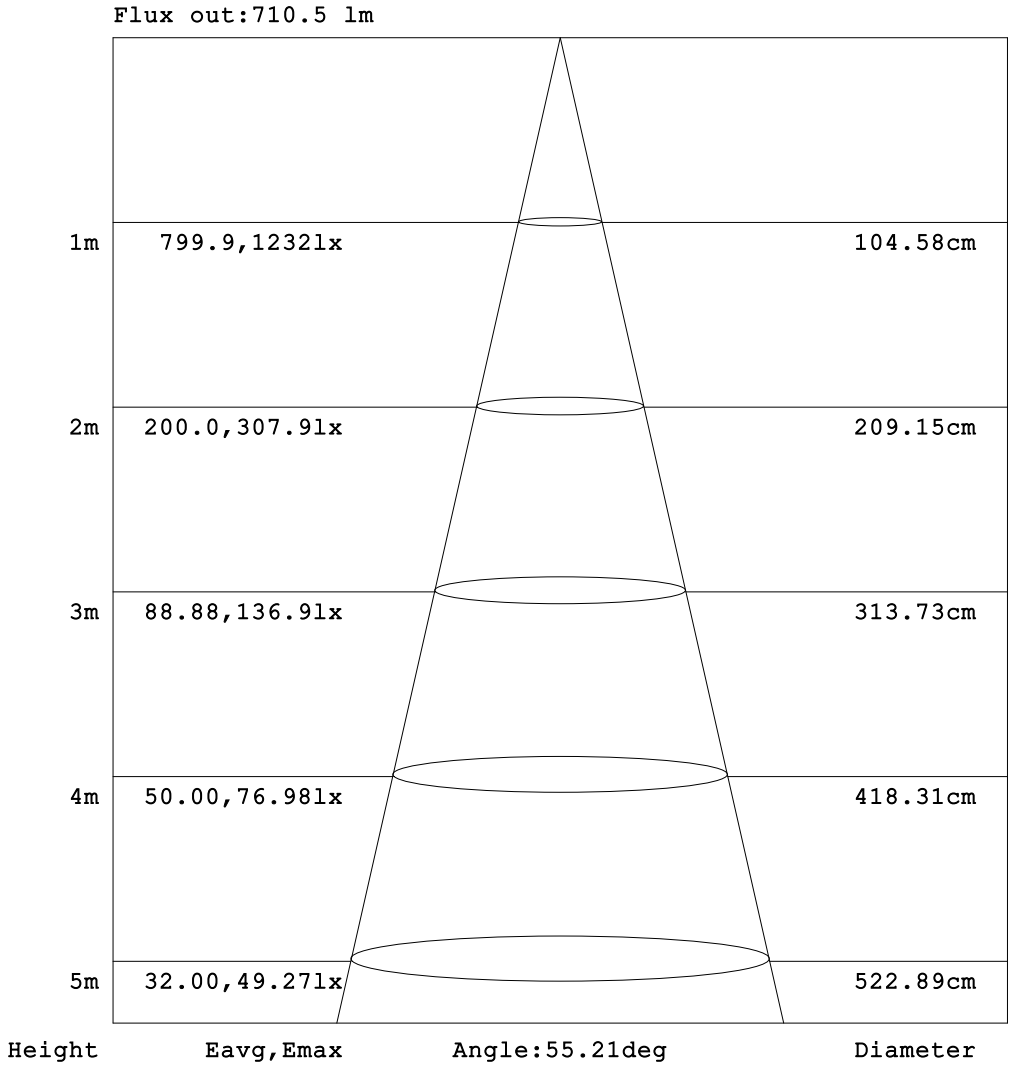
AAI Figure

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:



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

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C Interval: 10.0DEG
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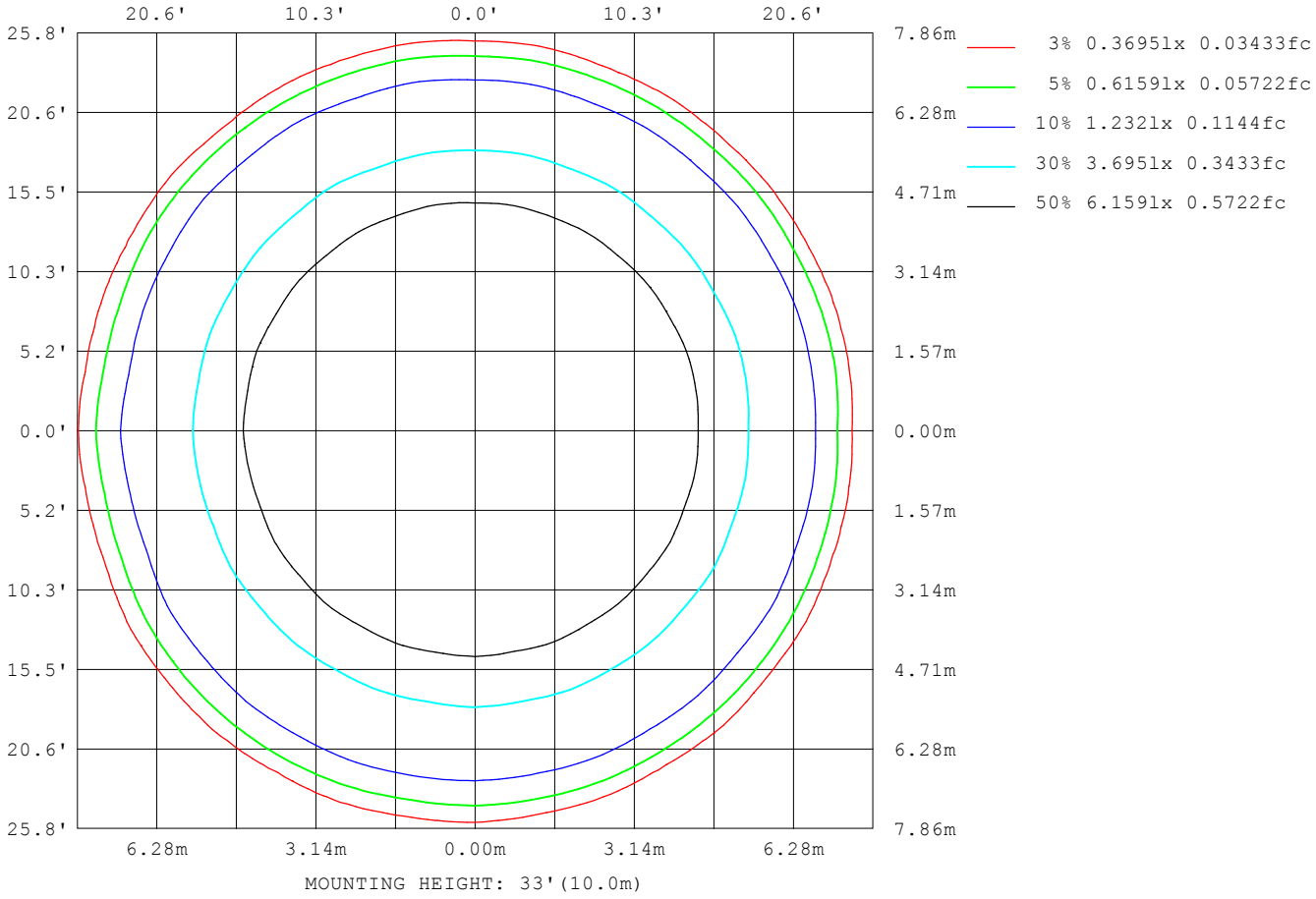
ISOLUX DIAGRAM

NAME: MCR-3 (10W, 60°)	**TYPE:LED**	**WEIGHT:**
SPEC.:	**DIM.:**	**SERIAL No.:1**
MFR.: Utopia Lighting	**SUR.:**	**PROTECTION ANGLE:**



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Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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LED Avg.L Report

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

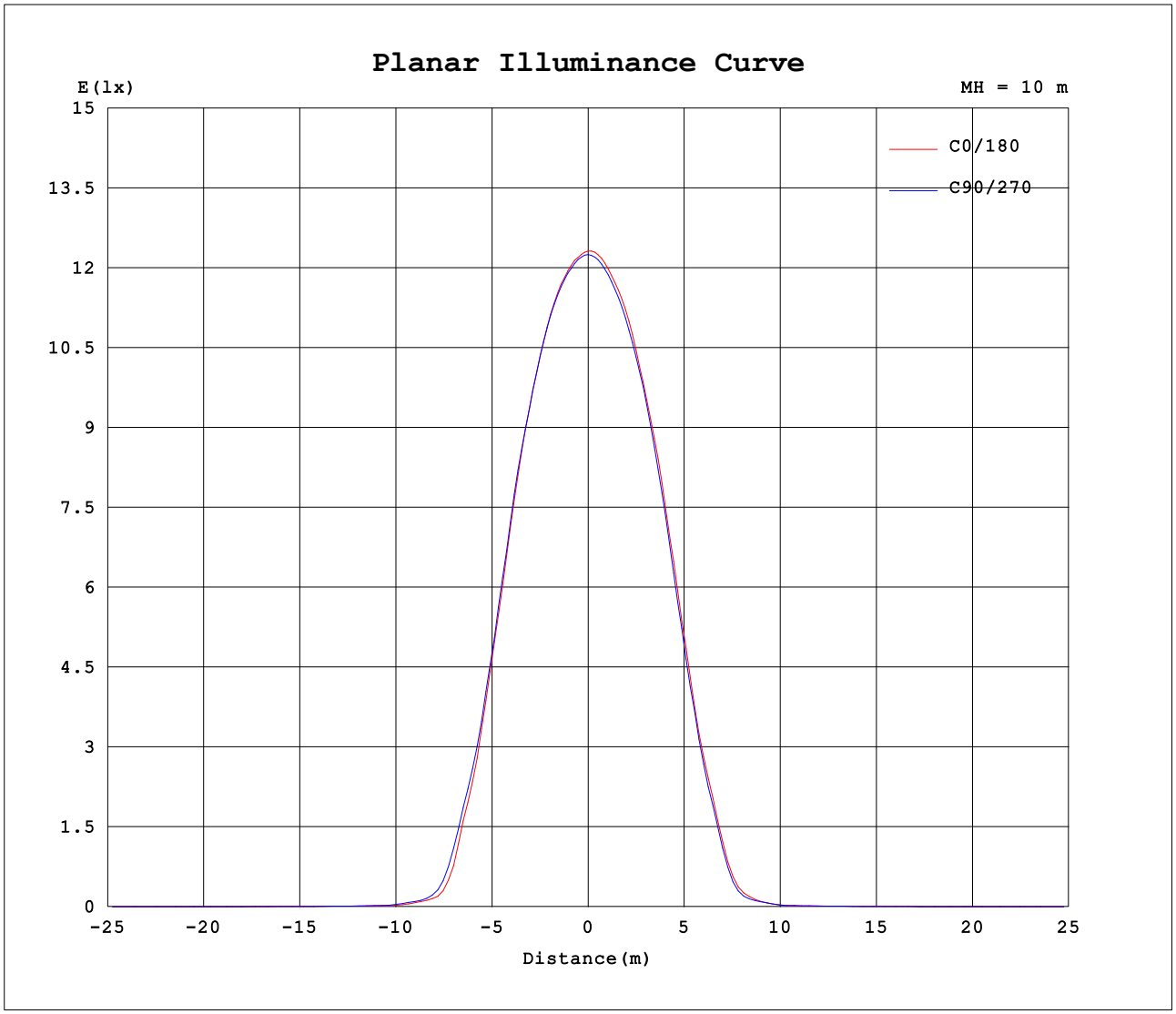
AvgL	cd/m2
L_0~180(65)av	1693
L_0~180(75)av	1299
L_0~180(85)av	566
L_90~270(65)av	1728
L_90~270(75)av	1505
L_90~270(85)av	943
L_45(65)av	1683
L_45(75)av	1372
L_45(85)av	500

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226
5	1213	1214	1214	1215	1215	1214	1213	1213	1213	1214	1214	1216	1216	1217	1216	1215	1215	1215	1218
10	1182	1182	1183	1185	1184	1185	1184	1186	1184	1185	1185	1185	1185	1185	1184	1186	1184	1185	1189
15	1108	1111	1108	1111	1109	1112	1111	1115	1113	1114	1111	1114	1109	1112	1112	1114	1112	1114	1121
20	973	977	975	982	978	981	979	985	983	989	987	992	992	999	998	1001	995	998	1009
25	734	742	733	747	742	752	747	757	751	758	754	764	761	777	770	783	772	785	794
30	429	439	431	450	445	458	452	466	457	465	460	470	466	479	475	486	481	488	499
35	140	155	150	165	166	178	175	191	186	201	201	214	213	225	217	224	197	202	224
40	27.5	27.9	27.7	29.0	29.4	30.9	30.8	33.4	33.9	36.5	38.0	40.0	39.4	42.5	41.3	41.8	40.0	40.6	42.6
45	8.35	8.46	8.50	9.69	9.63	10.5	10.6	11.4	10.9	13.0	12.5	12.2	12.3	12.9	12.1	10.4	8.78	8.76	9.30
50	5.68	5.76	5.81	5.87	5.96	6.13	6.21	6.35	6.30	6.48	6.42	6.39	6.41	6.39	6.37	6.36	6.43	6.36	6.31
55	4.58	4.92	5.15	5.13	5.08	4.97	5.09	5.15	5.23	5.43	5.39	5.35	5.40	5.40	5.44	5.47	5.53	5.53	5.39
60	3.49	3.55	3.62	3.75	3.85	3.84	4.00	4.16	4.27	4.39	4.37	4.24	4.29	4.38	4.46	4.42	4.46	4.33	4.21
65	3.00	3.02	3.10	3.09	3.18	3.21	3.31	3.40	3.49	3.52	3.60	3.55	3.59	3.59	3.61	3.58	3.60	3.55	3.43
70	2.18	2.21	2.28	2.32	2.43	2.54	2.67	2.80	2.93	3.03	3.06	3.03	3.02	2.97	2.98	2.92	2.83	2.78	2.69
75	1.35	1.35	1.42	1.43	1.52	1.56	1.67	1.74	1.87	1.94	2.00	1.99	1.99	1.93	1.89	1.81	1.77	1.72	1.68
80	0.69	0.67	0.72	0.71	0.79	0.80	0.90	0.96	1.07	1.11	1.15	1.12	1.09	1.04	1.01	0.95	0.95	0.91	0.90
85	0.15	0.12	0.16	0.13	0.19	0.19	0.27	0.30	0.40	0.41	0.44	0.38	0.36	0.31	0.32	0.27	0.28	0.25	0.29
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.03	0.00	0.02	0.00	0.01	0.00	0.00	0.00
105	0.15	0.17	0.16	0.16	0.15	0.16	0.13	0.17	0.13	0.16	0.12	0.14	0.14	0.13	0.09	0.12	0.09	0.12	0.01
110	0.38	0.42	0.40	0.41	0.41	0.42	0.40	0.42	0.37	0.40	0.36	0.39	0.35	0.37	0.34	0.36	0.34	0.36	0.09
115	0.78	0.81	0.79	0.81	0.78	0.81	0.78	0.80	0.78	0.79	0.77	0.77	0.73	0.75	0.73	0.74	0.72	0.73	0.27
120	1.31	1.33	1.30	1.33	1.31	1.33	1.30	1.31	1.29	1.30	1.27	1.27	1.24	1.26	1.22	1.24	1.22	1.23	0.60
125	1.92	1.94	1.93	1.94	1.93	1.94	1.93	1.91	1.89	1.89	1.87	1.88	1.86	1.86	1.82	1.84	1.81	1.83	1.06
130	2.63	2.65	2.63	2.64	2.63	2.63	2.62	2.63	2.59	2.60	2.57	2.58	2.55	2.56	2.52	2.53	2.51	2.52	1.64
135	3.38	3.40	3.40	3.41	3.39	3.40	3.38	3.38	3.37	3.36	3.33	3.34	3.32	3.31	3.29	3.29	3.27	3.28	2.33
140	4.16	4.19	4.17	4.18	4.17	4.18	4.15	4.16	4.12	4.14	4.11	4.11	4.11	4.09	4.07	4.08	4.04	4.06	3.05
145	4.90	4.93	4.90	4.91	4.89	4.90	4.91	4.89	4.88	4.88	4.85	4.86	4.84	4.83	4.81	4.82	4.79	4.81	3.78
150	5.53	5.55	5.52	5.54	5.51	5.52	5.49	5.52	5.49	5.52	5.48	5.48	5.46	5.46	5.44	5.45	5.43	5.45	4.46
155	6.02	6.03	5.98	5.98	5.96	5.97	5.94	5.99	5.98	5.99	5.94	5.95	5.92	5.92	5.91	5.93	5.91	5.96	5.02
160	6.23	6.27	6.19	6.22	6.18	6.21	6.19	6.24	6.20	6.24	6.19	6.20	6.14	6.19	6.15	6.21	6.18	6.22	5.44
165	6.37	6.40	6.35	6.36	6.34	6.37	6.35	6.38	6.34	6.39	6.34	6.34	6.29	6.33	6.29	6.35	6.33	6.37	5.80
170	6.46	6.50	6.47	6.50	6.48	6.51	6.50	6.53	6.50	6.53	6.50	6.50	6.44	6.47	6.45	6.51	6.46	6.51	6.16
175	6.56	6.61	6.57	6.63	6.64	6.68	6.64	6.69	6.65	6.67	6.65	6.66	6.63	6.66	6.64	6.65	6.60	6.62	6.48
180	6.69	6.70	6.69	6.73	6.78	6.79	6.78	6.75	6.73	6.73	6.72	6.73	6.75	6.79	6.77	6.75	6.72	6.73	6.69

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: MCR-3 (10W, 60°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

Table--2 UNIT: cd

C(DEG) / γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350
0	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226	1226
5	1216	1216	1215	1215	1212	1213	1212	1213	1212	1213	1213	1214	1214	1214	1214	1214	1214
10	1185	1187	1183	1183	1181	1181	1178	1180	1179	1182	1182	1185	1185	1186	1184	1186	1186
15	1119	1123	1119	1122	1118	1120	1117	1119	1116	1118	1116	1120	1117	1120	1116	1117	1114
20	1004	1007	999	1002	993	997	990	996	990	994	988	992	986	989	981	986	981
25	787	802	788	798	784	791	776	780	770	773	762	767	756	759	750	757	746
30	488	503	489	505	495	505	489	498	485	491	474	482	461	464	446	458	438
35	197	213	218	237	223	232	214	219	201	204	188	187	167	176	154	165	152
40	40.5	41.3	38.0	37.8	36.1	38.0	37.7	36.2	33.8	33.2	32.1	32.1	31.1	31.3	30.0	29.9	28.6
45	8.55	8.77	9.67	11.2	10.9	12.0	12.1	10.9	10.2	10.7	9.63	9.66	8.87	8.91	8.50	8.83	8.67
50	6.34	6.31	6.29	6.13	6.11	6.02	6.04	5.89	5.86	5.85	5.92	5.95	5.75	5.64	5.53	5.61	5.67
55	5.31	5.27	5.13	5.10	5.07	4.98	4.92	4.83	4.88	4.75	4.71	4.68	4.80	4.86	4.80	4.64	4.51
60	4.22	4.21	4.19	3.97	3.84	3.73	3.75	3.78	3.81	3.80	3.63	3.47	3.52	3.52	3.51	3.41	3.39
65	3.43	3.33	3.29	3.19	3.19	3.11	3.13	3.05	3.05	2.95	2.93	2.84	2.84	2.79	2.83	2.81	2.88
70	2.66	2.65	2.63	2.59	2.59	2.60	2.59	2.52	2.45	2.36	2.28	2.19	2.13	2.08	2.06	2.04	2.06
75	1.67	1.65	1.65	1.63	1.64	1.62	1.63	1.57	1.56	1.48	1.45	1.36	1.33	1.28	1.27	1.24	1.27
80	0.91	0.88	0.89	0.86	0.90	0.88	0.91	0.87	0.88	0.82	0.79	0.72	0.71	0.65	0.66	0.62	0.65
85	0.28	0.28	0.28	0.13	0.12	0.27	0.33	0.30	0.33	0.27	0.27	0.20	0.20	0.14	0.15	0.11	0.13
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
105	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03	0.01	0.02	0.00	0.03	0.01	0.03	0.01
110	0.06	0.09	0.06	0.09	0.06	0.10	0.07	0.11	0.08	0.11	0.08	0.12	0.08	0.11	0.07	0.11	0.07
115	0.23	0.27	0.24	0.29	0.26	0.30	0.27	0.31	0.27	0.32	0.28	0.33	0.29	0.33	0.29	0.33	0.29
120	0.56	0.60	0.57	0.61	0.59	0.62	0.60	0.65	0.64	0.66	0.64	0.67	0.64	0.68	0.64	0.68	0.65
125	1.04	1.07	1.06	1.08	1.07	1.11	1.09	1.12	1.10	1.14	1.12	1.15	1.13	1.16	1.15	1.17	1.15
130	1.62	1.64	1.64	1.66	1.65	1.69	1.70	1.71	1.71	1.73	1.71	1.74	1.72	1.75	1.73	1.75	1.74
135	2.30	2.32	2.32	2.34	2.33	2.37	2.36	2.41	2.40	2.42	2.42	2.43	2.41	2.44	2.42	2.44	2.43
140	3.03	3.05	3.04	3.07	3.06	3.09	3.10	3.13	3.12	3.14	3.16	3.17	3.15	3.17	3.16	3.18	3.16
145	3.75	3.77	3.76	3.78	3.78	3.80	3.81	3.85	3.84	3.87	3.85	3.87	3.85	3.88	3.88	3.89	3.88
150	4.42	4.43	4.40	4.43	4.42	4.45	4.46	4.50	4.49	4.52	4.50	4.51	4.49	4.53	4.52	4.55	4.55
155	4.98	4.99	4.95	4.98	4.96	5.00	4.99	5.05	5.04	5.08	5.05	5.04	5.02	5.05	5.04	5.10	5.10
160	5.39	5.43	5.38	5.40	5.36	5.41	5.40	5.45	5.44	5.48	5.44	5.47	5.43	5.46	5.45	5.49	5.48
165	5.76	5.79	5.76	5.76	5.74	5.78	5.75	5.82	5.82	5.85	5.83	5.85	5.82	5.83	5.82	5.87	5.85
170	6.12	6.17	6.12	6.17	6.11	6.15	6.14	6.20	6.20	6.24	6.21	6.22	6.22	6.21	6.17	6.22	6.19
175	6.46	6.51	6.49	6.54	6.50	6.53	6.50	6.54	6.50	6.56	6.56	6.58	6.57	6.56	6.50	6.54	6.51
180	6.70	6.71	6.72	6.77	6.78	6.78	6.73	6.73	6.72	6.73	6.73	6.76	6.79	6.78	6.73	6.73	6.73

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.291
Humidity:65.0%
Test Distance:8.050m [K=1.0000]
Remarks: