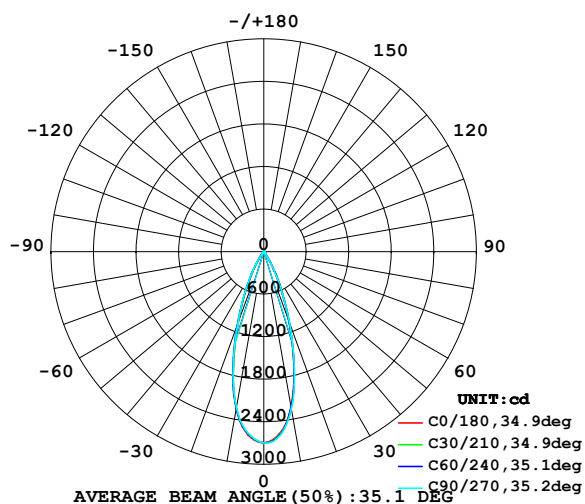


LUMINAIRE PHOTOMETRIC TEST REPORT

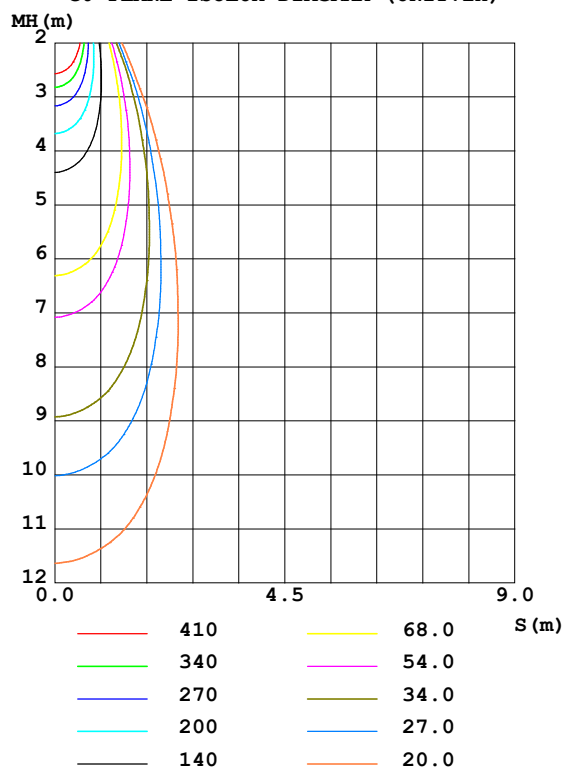
NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 108.16 lm/W			
MCR-3 (10W, 36°)		Imax(cd)	2700	S/MH(C0/180)	0.58
NOMINAL POWER(W)	10	LOR(%)	100.0	S/MH(C90/270)	0.58
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1058.2	η UP,DN(C0-180)	0.7,48.3
NOMINAL FLUX(lm)	1058.18	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,50.4
LAMPS INSIDE	1	η up(%)	1.3	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	98.7	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



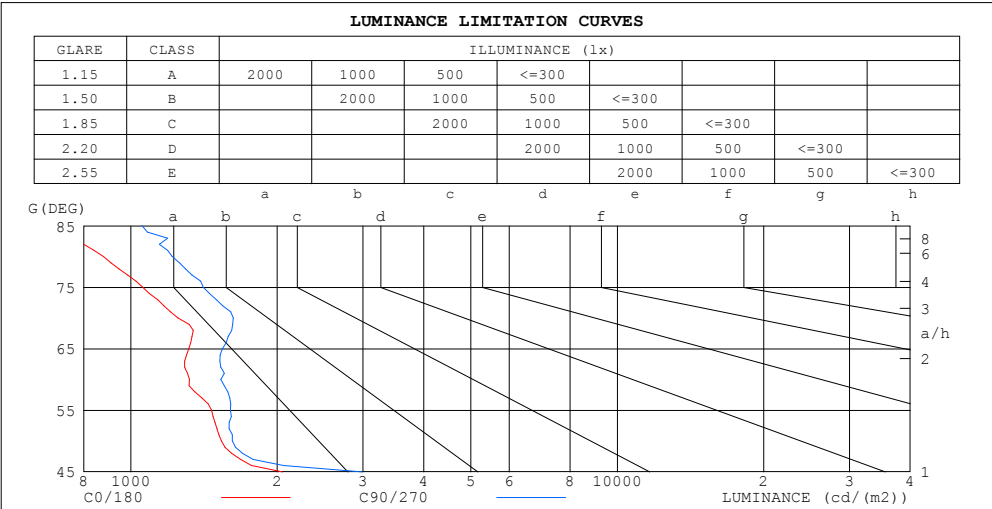
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

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:

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	2222	2235	2249	2235	2247	2243	2233	2235	0- 10	235.9	235.9	22.3,22.3
20	1046	1046	1057	1038	1062	1078	1081	1078	10- 20	451.7	687.6	65,65
30	267.9	249.7	242.4	246.9	284.8	307.4	313.4	300.3	20- 30	275.3	963.0	91,91
40	20.35	18.15	17.75	19.16	22.40	25.81	27.81	25.75	30- 40	64.91	1028	97.1,97.1
50	4.425	4.446	4.684	4.796	5.014	4.883	5.463	4.492	40- 50	8.536	1036	97.9,97.9
60	2.956	3.245	3.448	3.526	3.515	3.227	2.849	2.728	50- 60	3.593	1040	98.3,98.3
70	1.915	2.264	2.504	2.586	2.495	2.125	1.888	1.741	60- 70	2.646	1043	98.5,98.5
80	0.6836	0.8181	0.9515	1.001	0.9327	0.7798	0.6869	0.5961	70- 80	1.520	1044	98.7,98.7
90	0	0.0000	0	0.0003	0	0.0002	0.0001	0	80- 90	0.3742	1045	98.7,98.7
100	0	0.0090	0.0363	0.0046	0.0000	0.0023	0.0045	0.0090	90-100	0.0019	1045	98.7,98.7
110	0.2015	0.2456	0.2938	0.2394	0.0630	0.0428	0.0584	0.0564	100-110	0.0596	1045	98.7,98.7
120	1.027	1.088	1.107	1.079	0.4184	0.3786	0.3695	0.3863	110-120	0.3829	1045	98.8,98.8
130	2.791	2.857	2.850	2.841	1.556	1.510	1.519	1.516	120-130	1.222	1046	98.9,98.9
140	5.125	5.178	5.211	5.183	3.591	3.547	3.604	3.560	130-140	2.482	1049	99.1,99.1
150	7.112	7.148	7.183	7.151	5.899	5.825	5.858	5.859	140-150	3.420	1052	99.4,99.4
160	7.811	7.770	7.800	7.783	7.213	7.073	7.140	7.155	150-160	3.282	1055	99.7,99.7
170	7.298	7.269	7.280	7.252	7.050	7.004	7.096	7.094	160-170	2.094	1058	99.9,99.9
180	7.064	7.143	7.100	7.162	7.100	7.141	7.082	7.151	170-180	0.6768	1058	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	646	1055
80	879	1217
75	1058	1409
70	1250	1625
65	1317	1544
60	1319	1531
55	1465	1602
50	1537	1618
45	2051	2993

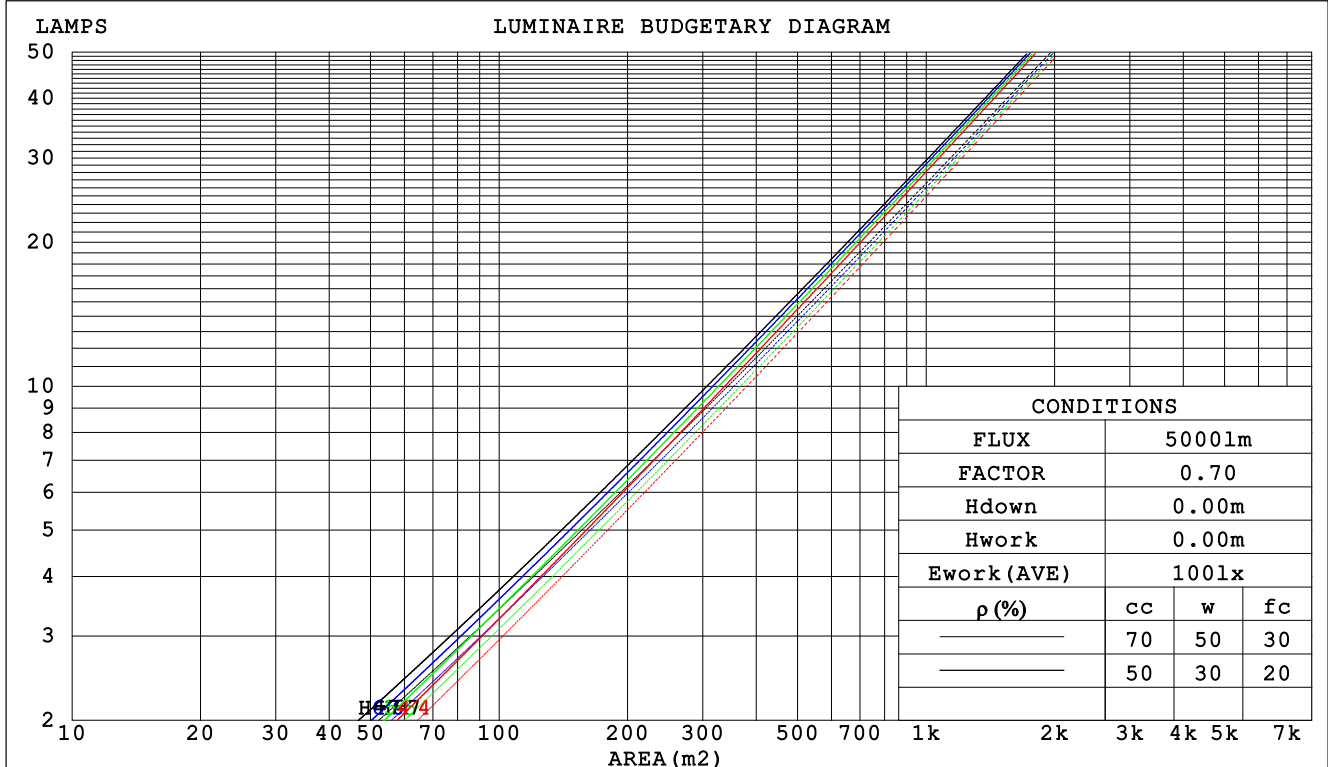
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION 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	1.12	1.10	1.08	1.10	1.08	1.06	1.05	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.06	1.02	.00	1.04	1.01	.98	1.01	.98	.96	.97	.95	.94	.95	.93	.92	.90
3.0	1.00	.96	.93	.99	.95	.92	.96	.93	.91	.94	.91	.89	.91	.89	.88	.86
4.0	.95	.91	.88	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.86	.83	.90	.86	.83	.88	.85	.82	.87	.83	.81	.85	.82	.80	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.83	.80	.77	.82	.79	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.80	.77	.74	.79	.76	.74	.73
8.0	.80	.75	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.72	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
10.0	.74	.70	.67	.74	.69	.66	.73	.69	.66	.72	.69	.66	.72	.68	.66	.65



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:

WEC AND CCEC

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)										
0.0																	
1.0	.152	.087	.027	.145	.083	.026	.132	.076	.024	.120	.069	.022	.109	.063	.020		
2.0	.142	.078	.024	.137	.075	.023	.126	.070	.022	.115	.065	.020	.106	.060	.019		
3.0	.134	.071	.021	.129	.069	.021	.120	.065	.020	.111	.061	.019	.103	.057	.018		
4.0	.126	.066	.019	.122	.064	.019	.114	.060	.018	.107	.057	.017	.100	.054	.016		
5.0	.120	.061	.018	.116	.060	.017	.109	.057	.017	.103	.054	.016	.097	.052	.015		
6.0	.114	.057	.016	.110	.056	.016	.104	.054	.016	.099	.051	.015	.093	.049	.015		
7.0	.108	.054	.015	.106	.053	.015	.100	.051	.015	.095	.049	.014	.091	.047	.014		
8.0	.104	.051	.014	.101	.050	.014	.096	.048	.014	.092	.047	.013	.088	.045	.013		
9.0	.099	.048	.013	.097	.047	.013	.093	.046	.013	.089	.045	.013	.085	.043	.012		
10.0	.095	.046	.013	.093	.045	.013	.090	.044	.012	.086	.043	.012	.083	.042	.012		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	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	.179	.167	.157	.153	.144	.135	.105	.099	.093	.060	.057	.054	.019	.018	.018		
2.0	.162	.143	.126	.139	.123	.109	.095	.085	.076	.055	.049	.045	.018	.016	.015		
3.0	.148	.123	.104	.127	.106	.090	.087	.074	.063	.050	.043	.037	.016	.014	.012		
4.0	.137	.108	.087	.117	.094	.075	.081	.065	.053	.047	.038	.031	.015	.012	.010		
5.0	.127	.096	.074	.109	.083	.064	.075	.058	.045	.043	.034	.027	.014	.011	.009		
6.0	.119	.087	.064	.102	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008		
7.0	.111	.079	.056	.096	.068	.049	.066	.048	.034	.038	.028	.020	.012	.009	.007		
8.0	.105	.072	.049	.091	.063	.043	.063	.044	.031	.036	.026	.018	.012	.008	.006		
9.0	.100	.067	.044	.086	.058	.039	.060	.041	.027	.035	.024	.016	.011	.008	.005		
10.0	.095	.062	.040	.082	.054	.035	.057	.038	.025	.033	.022	.015	.011	.007	.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, 36°)					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					10.4	11.2	10.7	11.4	11.5	9.5	10.3	9.8	10.5	10.6
3H					10.4	11.1	10.7	11.3	11.5	9.6	10.3	9.9	10.5	10.7
4H					10.4	11.0	10.7	11.3	11.5	9.7	10.3	9.9	10.5	10.8
6H					10.3	11.0	10.7	11.2	11.5	9.7	10.3	10.0	10.5	10.8
8H					10.3	10.9	10.6	11.2	11.5	9.7	10.3	10.0	10.5	10.8
12H					10.3	10.9	10.6	11.1	11.4	9.6	10.2	10.0	10.5	10.8
4H 2H					10.3	10.9	10.5	11.2	11.4	9.4	10.0	9.7	10.3	10.5
3H					10.3	10.9	10.6	11.1	11.4	9.5	10.1	9.9	10.4	10.7
4H					10.3	10.8	10.6	11.1	11.4	9.6	10.1	10.0	10.5	10.8
6H					10.3	10.7	10.7	11.1	11.4	9.7	10.1	10.1	10.5	10.9
8H					10.2	10.7	10.6	11.0	11.4	9.7	10.1	10.1	10.5	10.9
12H					10.2	10.6	10.6	11.0	11.4	9.7	10.1	10.1	10.5	10.9
8H 4H					10.2	10.6	10.6	11.0	11.4	9.5	10.0	10.0	10.3	10.7
6H					10.2	10.6	10.6	11.0	11.4	9.6	10.0	10.1	10.4	10.8
8H					10.2	10.5	10.7	10.9	11.4	9.7	10.0	10.1	10.4	10.9
12H					10.2	10.4	10.6	10.9	11.4	9.7	10.0	10.2	10.4	10.9
12H 4H					10.2	10.5	10.6	10.9	11.3	9.5	9.9	9.9	10.3	10.7
6H					10.2	10.5	10.6	10.9	11.4	9.6	9.9	10.1	10.4	10.8
8H					10.1	10.4	10.6	10.9	11.4	9.6	9.9	10.1	10.4	10.9
Variations with the observer position at spacings:														
S = 1.0H					+ 1.7 / - 1.6					+ 1.4 / - 1.2				
1.5H					+ 3.5 / - 1.6					+ 3.0 / - 1.2				
2.0H					+ 0.5 / - 0.3					+ 1.5 / - 0.3				

CIE Pub.117 Corrected 1058 lm Total Lamp Luminous Flux. (8log(F/F0) = 0.2)

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:

UTILIZATION FACTORS TABLE

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

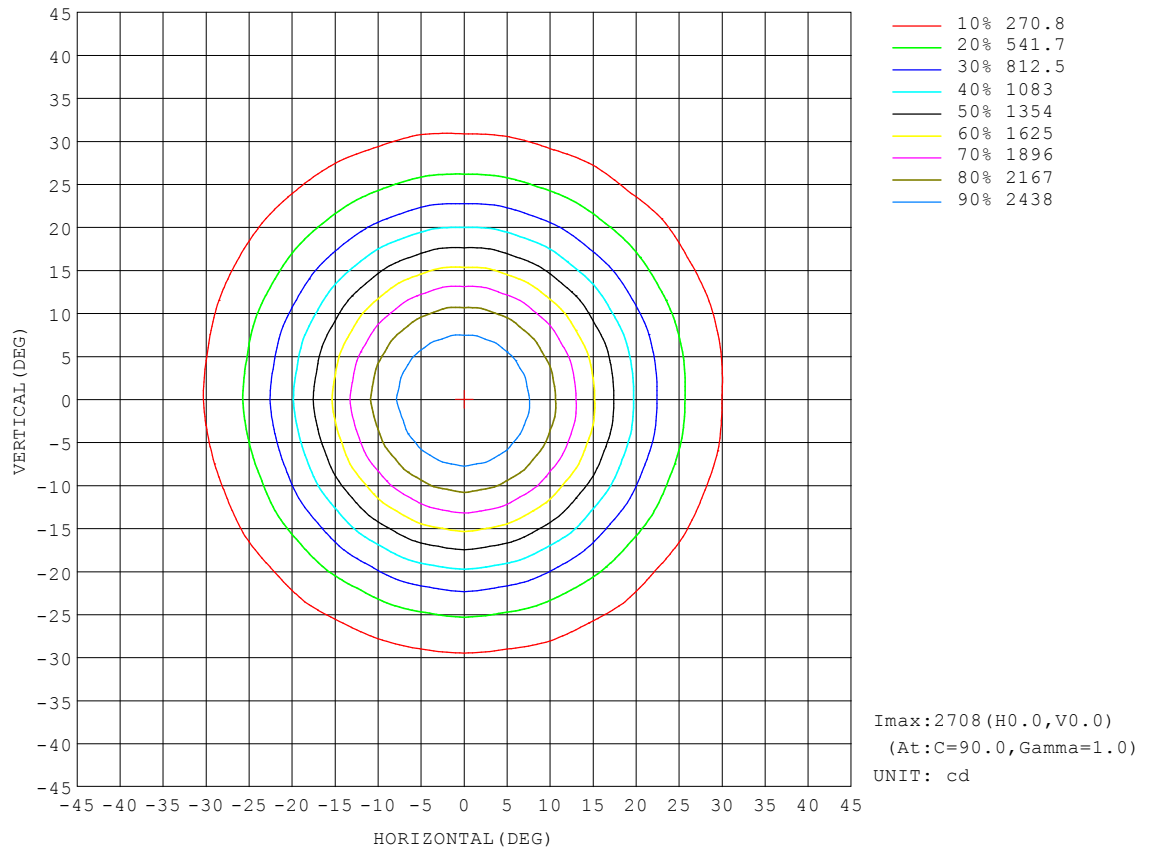
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	89	84	80	88	83	80	77
0.80	97	91	88	96	91	88	95	90	87	84
1.00	101	96	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	105	102	99	103	100	98	93
2.00	109	105	102	108	104	101	105	102	100	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	98
5.00	115	113	111	113	111	110	109	108	106	99
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
 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:

ISOCANDELA DIAGRAM

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

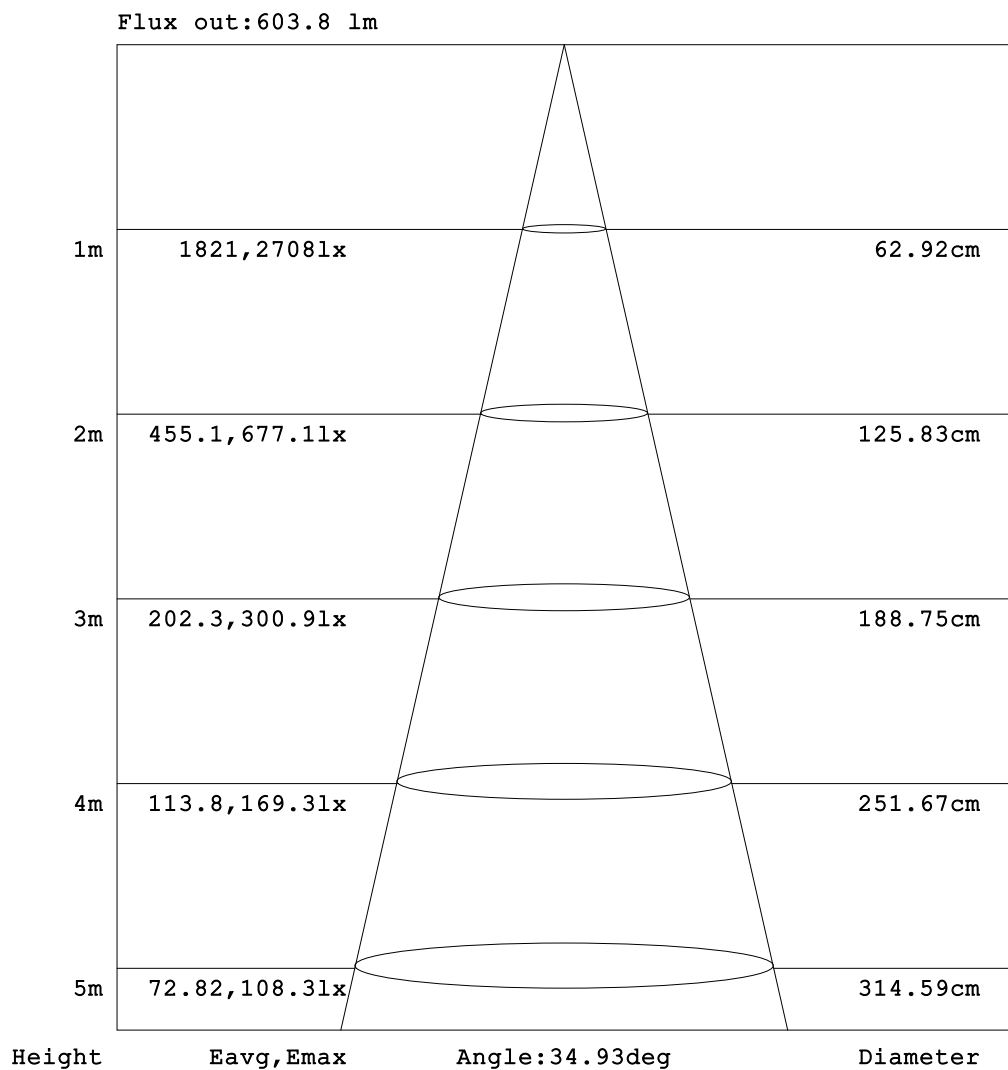


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

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:

AAI Figure

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:



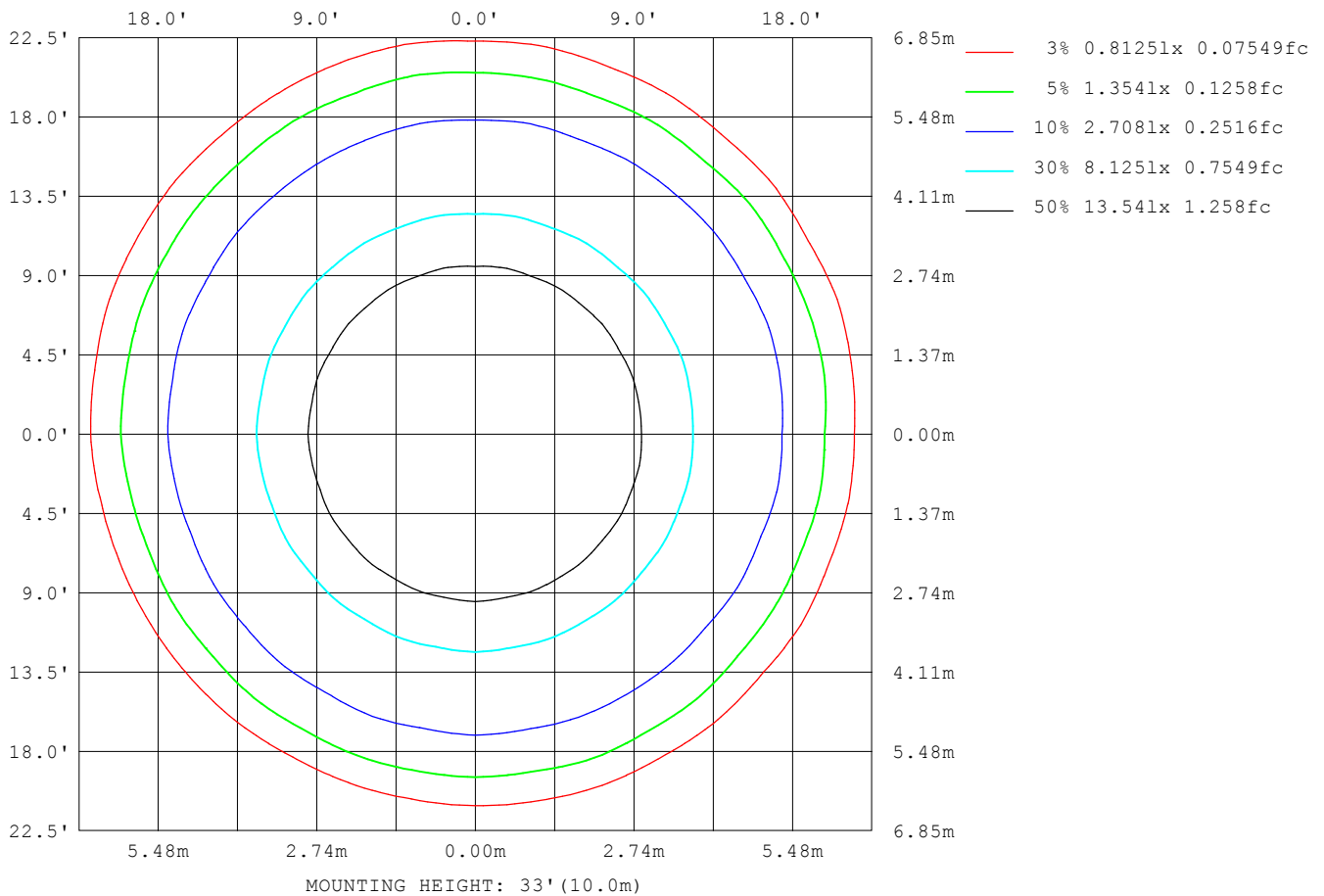
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:

ISOLUX DIAGRAM

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:



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:

LED Avg.L Report

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

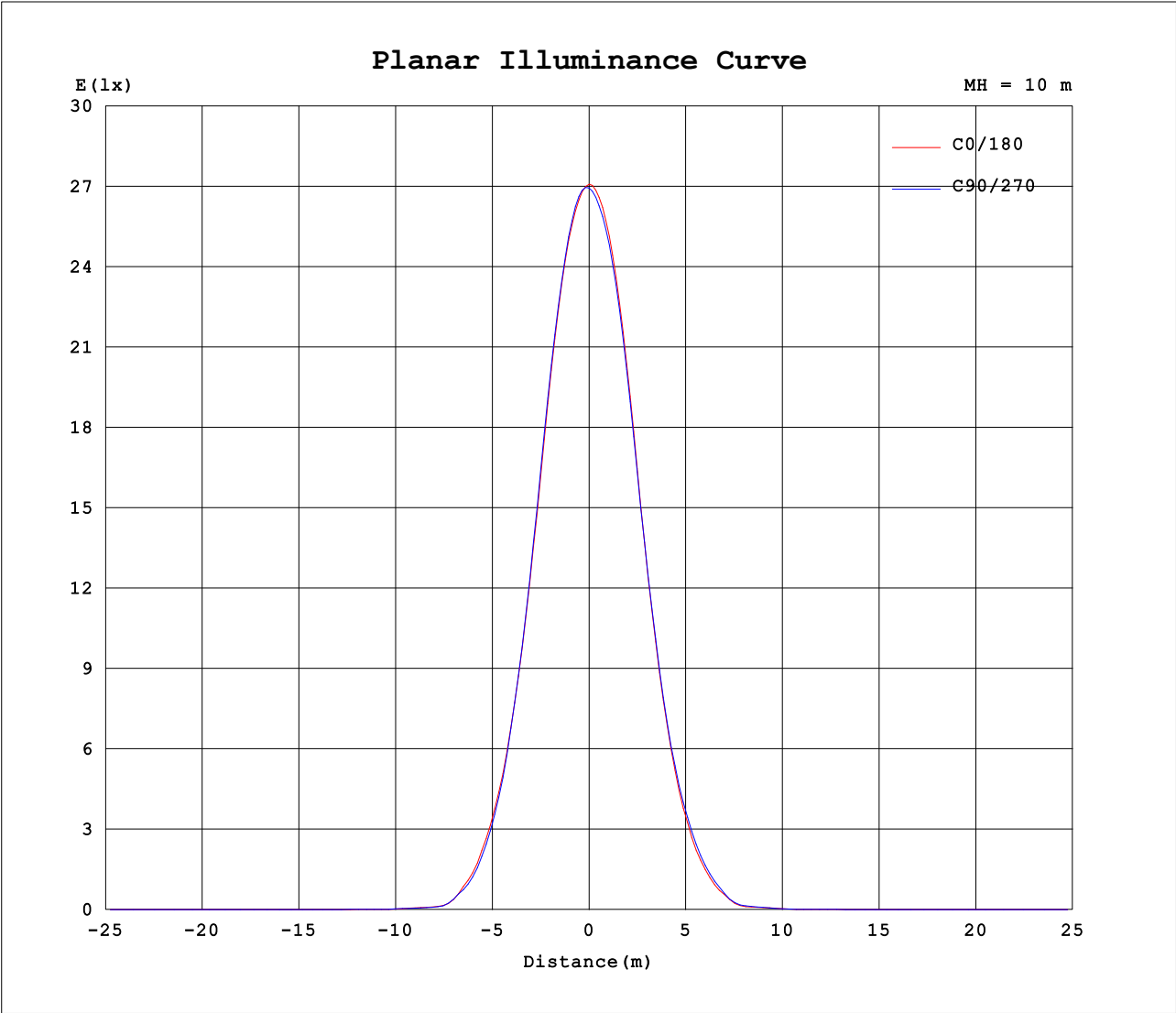
AvgL	cd/m2
L_0~180 (65) av	1419
L_0~180 (75) av	1224
L_0~180 (85) av	830
L_90~270 (65) av	1391
L_90~270 (75) av	1217
L_90~270 (85) av	897
L_45 (65) av	1395
L_45 (75) av	1215
L_45 (85) av	743

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: MCR-3 (10W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697
5	2576	2585	2583	2590	2589	2597	2597	2603	2598	2606	2600	2605	2599	2603	2594	2596	2588	2590	2591
10	2222	2233	2225	2238	2227	2242	2232	2246	2235	2249	2234	2244	2231	2241	2229	2241	2228	2236	2247
15	1639	1655	1642	1657	1640	1661	1650	1665	1653	1672	1652	1664	1644	1658	1638	1654	1636	1651	1666
20	1046	1055	1039	1050	1034	1058	1041	1055	1042	1057	1041	1053	1032	1047	1030	1045	1032	1046	1062
25	588	591	575	578	562	569	560	568	557	566	554	561	546	562	555	568	560	577	593
30	268	273	255	258	243	256	245	254	241	242	239	239	236	251	242	258	255	270	285
35	70.3	72.7	63.9	70.2	65.4	72.3	67.4	75.7	67.0	72.4	74.2	75.1	77.2	84.9	77.7	89.1	88.9	93.9	104
40	20.4	19.7	18.7	18.6	18.1	18.2	17.8	18.0	17.5	17.8	17.8	18.1	18.5	19.1	19.2	20.1	20.6	21.3	22.4
45	6.50	6.96	6.61	7.46	7.43	8.28	8.20	8.67	8.66	9.53	9.39	10.1	10.0	10.6	10.5	11.2	11.2	12.0	12.2
50	4.43	4.31	4.36	4.34	4.43	4.47	4.47	4.54	4.64	4.68	4.73	4.75	4.82	4.81	4.78	4.75	4.79	4.81	5.01
55	3.76	3.72	3.79	3.85	3.91	3.96	3.93	3.96	4.08	4.14	4.20	4.19	4.24	4.23	4.26	4.21	4.25	4.26	4.37
60	2.96	2.95	3.03	3.08	3.20	3.29	3.28	3.31	3.39	3.45	3.52	3.55	3.58	3.55	3.51	3.49	3.47	3.46	3.51
65	2.49	2.52	2.62	2.64	2.73	2.75	2.78	2.81	2.91	2.94	3.02	3.04	3.05	3.02	3.03	2.97	2.98	2.90	2.90
70	1.92	1.99	2.06	2.14	2.23	2.30	2.31	2.38	2.45	2.50	2.58	2.61	2.62	2.58	2.59	2.55	2.56	2.53	2.50
75	1.23	1.24	1.33	1.35	1.44	1.47	1.50	1.52	1.60	1.64	1.71	1.72	1.74	1.72	1.72	1.68	1.68	1.66	1.62
80	0.68	0.68	0.75	0.75	0.81	0.82	0.85	0.86	0.93	0.95	1.01	0.99	1.01	0.99	1.01	0.97	0.98	0.93	0.93
85	0.25	0.23	0.29	0.27	0.33	0.35	0.35	0.34	0.40	0.41	0.45	0.42	0.44	0.41	0.44	0.40	0.43	0.38	0.40
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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100	0.00	0.01	0.00	0.02	0.00	0.02	0.00	0.03	0.01	0.04	0.00	0.04	0.00	0.00	0.00	0.01	0.01	0.01	0.00
105	0.06	0.09	0.06	0.09	0.06	0.09	0.06	0.12	0.08	0.11	0.07	0.11	0.07	0.10	0.06	0.08	0.05	0.07	0.01
110	0.20	0.24	0.21	0.26	0.22	0.28	0.30	0.29	0.27	0.29	0.26	0.29	0.24	0.27	0.21	0.26	0.21	0.23	0.06
115	0.51	0.54	0.53	0.57	0.55	0.58	0.58	0.61	0.59	0.61	0.58	0.61	0.57	0.57	0.53	0.57	0.53	0.54	0.18
120	1.03	1.07	1.06	1.08	1.08	1.10	1.08	1.10	1.09	1.11	1.08	1.11	1.08	1.09	1.06	1.08	1.06	1.06	0.42
125	1.79	1.80	1.82	1.84	1.84	1.87	1.86	1.86	1.85	1.86	1.85	1.85	1.85	1.86	1.83	1.83	1.81	1.81	0.86
130	2.79	2.79	2.81	2.83	2.85	2.86	2.87	2.87	2.86	2.85	2.87	2.87	2.87	2.85	2.83	2.82	2.81	2.80	1.56
135	3.94	3.94	3.96	3.96	3.98	4.00	4.02	4.01	4.04	4.02	4.03	4.02	4.01	4.00	3.97	3.96	3.96	3.95	2.47
140	5.13	5.14	5.16	5.17	5.17	5.19	5.20	5.21	5.22	5.21	5.21	5.21	5.20	5.19	5.18	5.17	5.16	5.15	3.59
145	6.23	6.25	6.25	6.26	6.27	6.27	6.28	6.29	6.30	6.32	6.30	6.31	6.29	6.29	6.27	6.27	6.26	6.26	4.78
150	7.11	7.14	7.12	7.14	7.14	7.15	7.13	7.16	7.16	7.18	7.17	7.17	7.15	7.16	7.14	7.15	7.14	7.14	5.90
155	7.69	7.71	7.65	7.68	7.64	7.68	7.66	7.70	7.73	7.72	7.68	7.70	7.67	7.69	7.65	7.69	7.67	7.71	6.76
160	7.81	7.83	7.77	7.73	7.78	7.76	7.76	7.78	7.79	7.80	7.76	7.82	7.82	7.77	7.79	7.79	7.81	7.81	7.21
165	7.66	7.62	7.62	7.57	7.59	7.56	7.61	7.57	7.62	7.60	7.62	7.57	7.60	7.58	7.60	7.59	7.65	7.61	7.23
170	7.30	7.26	7.28	7.26	7.28	7.26	7.29	7.27	7.33	7.28	7.31	7.23	7.25	7.22	7.29	7.28	7.31	7.30	7.05
175	7.03	7.04	7.04	7.07	7.10	7.16	7.15	7.12	7.12	7.09	7.10	7.12	7.11	7.13	7.13	7.14	7.08	7.04	6.97
180	7.06	7.08	7.07	7.15	7.14	7.15	7.15	7.12	7.10	7.10	7.09	7.10	7.15	7.16	7.16	7.12	7.09	7.09	7.10

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: MCR-3 (10W, 36°)	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	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697	2697		
5	2584	2588	2581	2585	2578	2579	2572	2576	2571	2574	2571	2575	2572	2577	2575	2583	2580		
10	2235	2249	2236	2250	2237	2247	2235	2249	2233	2243	2230	2241	2228	2241	2229	2242	2231		
15	1649	1666	1654	1674	1663	1682	1668	1686	1666	1680	1662	1675	1660	1673	1653	1667	1652		
20	1052	1071	1063	1082	1074	1090	1079	1096	1081	1093	1078	1090	1071	1085	1070	1082	1064		
25	585	606	599	617	611	624	619	634	621	630	615	625	610	622	609	617	605		
30	283	298	299	309	305	319	310	329	313	317	304	313	291	310	297	301	289		
35	104	113	114	120	114	124	119	123	112	112	105	107	97.1	99.6	91.2	92.0	82.3		
40	22.8	23.8	24.5	25.5	26.1	27.4	27.4	28.1	27.8	27.7	27.1	26.8	26.0	25.5	24.1	23.3	22.0		
45	11.8	12.3	11.7	12.1	11.1	11.0	10.5	12.3	10.9	9.95	9.36	9.80	8.82	8.99	8.17	8.45	7.85		
50	4.99	4.97	4.93	4.87	4.90	5.04	5.21	5.82	5.46	4.84	4.60	4.53	4.54	4.45	4.48	4.40	4.45		
55	4.42	4.42	4.44	4.24	4.23	4.14	4.40	4.73	4.34	3.84	3.80	3.73	3.76	3.73	3.78	3.75	3.81		
60	3.47	3.39	3.40	3.24	3.22	3.07	3.00	2.89	2.85	2.73	2.76	2.73	2.75	2.71	2.76	2.79	2.89		
65	2.88	2.77	2.72	2.60	2.56	2.46	2.45	2.36	2.35	2.29	2.29	2.23	2.27	2.24	2.31	2.31	2.40		
70	2.44	2.33	2.27	2.16	2.09	2.03	1.99	1.92	1.89	1.81	1.79	1.75	1.74	1.74	1.75	1.79	1.83		
75	1.59	1.52	1.48	1.40	1.35	1.30	1.27	1.21	1.19	1.15	1.13	1.08	1.11	1.08	1.11	1.10	1.17		
80	0.94	0.87	0.87	0.78	0.78	0.72	0.73	0.67	0.69	0.63	0.63	0.59	0.62	0.58	0.62	0.63	0.65		
85	0.41	0.35	0.38	0.22	0.17	0.26	0.31	0.27	0.29	0.22	0.25	0.22	0.23	0.21	0.23	0.22	0.25		
90	0.03	0.00	0.02	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	0.01	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	0.02	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.01	0.00		
105	0.00	0.01	0.00	0.01	0.01	0.02	0.00	0.03	0.00	0.04	0.00	0.04	0.01	0.02	0.00	0.03	0.00		
110	0.01	0.05	0.01	0.06	0.03	0.08	0.05	0.08	0.06	0.08	0.06	0.08	0.05	0.06	0.09	0.07	0.03		
115	0.14	0.17	0.13	0.16	0.14	0.16	0.14	0.19	0.14	0.19	0.15	0.16	0.14	0.17	0.14	0.18	0.14		
120	0.38	0.41	0.36	0.40	0.36	0.40	0.36	0.39	0.37	0.40	0.36	0.40	0.37	0.41	0.38	0.42	0.40		
125	0.84	0.85	0.81	0.83	0.83	0.82	0.80	0.82	0.80	0.83	0.80	0.82	0.83	0.83	0.84	0.85	0.84		
130	1.51	1.53	1.50	1.51	1.51	1.53	1.52	1.53	1.52	1.53	1.51	1.53	1.52	1.51	1.51	1.53	1.52		
135	2.45	2.45	2.43	2.43	2.43	2.45	2.44	2.45	2.46	2.45	2.44	2.45	2.42	2.43	2.44	2.45	2.45		
140	3.58	3.57	3.57	3.55	3.55	3.57	3.57	3.58	3.60	3.57	3.57	3.56	3.57	3.55	3.57	3.57	3.59		
145	4.76	4.75	4.74	4.73	4.72	4.74	4.74	4.74	4.75	4.75	4.75	4.73	4.75	4.75	4.76	4.76	4.78		
150	5.87	5.86	5.84	5.83	5.82	5.83	5.82	5.85	5.86	5.86	5.84	5.85	5.85	5.87	5.87	5.88	5.91		
155	6.72	6.71	6.66	6.67	6.64	6.67	6.66	6.69	6.69	6.70	6.69	6.69	6.70	6.71	6.72	6.76	6.77		
160	7.16	7.16	7.12	7.08	7.07	7.11	7.07	7.09	7.14	7.18	7.16	7.16	7.13	7.18	7.17	7.23	7.23		
165	7.19	7.19	7.18	7.12	7.15	7.09	7.13	7.14	7.21	7.18	7.21	7.21	7.23	7.22	7.22	7.25	7.31		
170	7.09	7.04	7.07	7.00	7.01	6.98	7.03	7.01	7.10	7.07	7.11	7.08	7.10	7.09	7.11	7.07	7.14		
175	6.95	7.00	6.99	7.03	7.00	6.99	6.97	6.98	6.99	7.03	7.05	7.06	7.04	7.01	6.97	6.99	6.99		
180	7.05	7.07	7.15	7.14	7.14	7.15	7.09	7.09	7.08	7.09	7.09	7.16	7.15	7.15	7.08	7.09	7.09		

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: