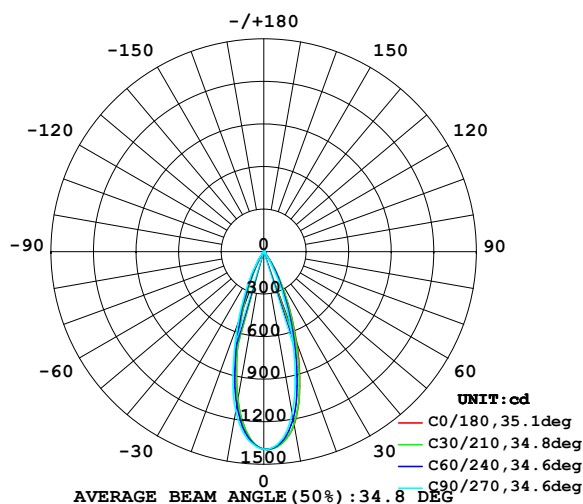


LUMINAIRE PHOTOMETRIC TEST REPORT

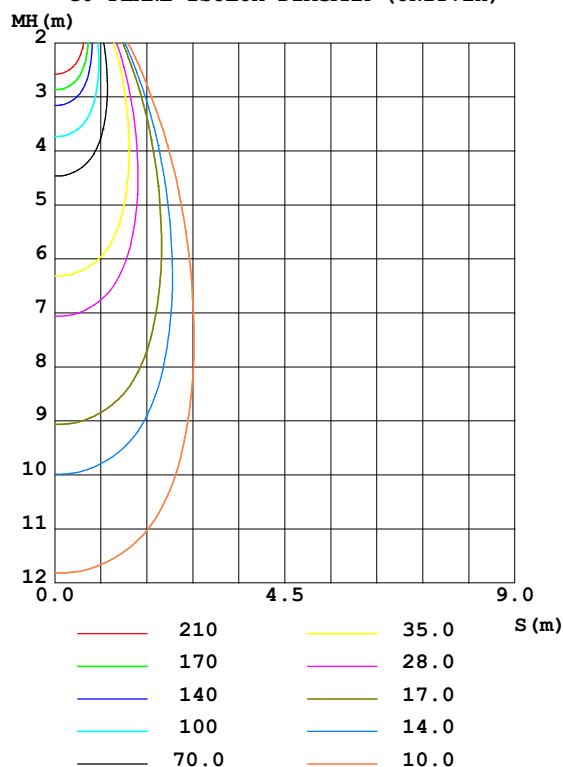
NAME: MCR-3 (5W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.40 lm/W			
MCR-3 (5W, 36°)		Imax(cd)	1397	S/MH(C0/180)	0.52
NOMINAL POWER(W)	5	LOR(%)	100.0	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	542.44	η UP,DN(C0-180)	0.7,50.3
NOMINAL FLUX(lm)	542.436	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,48.4
LAMPS INSIDE	1	η up(%)	1.2	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	η down(%)	98.8	CIBSE SHR MAX	0.60

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



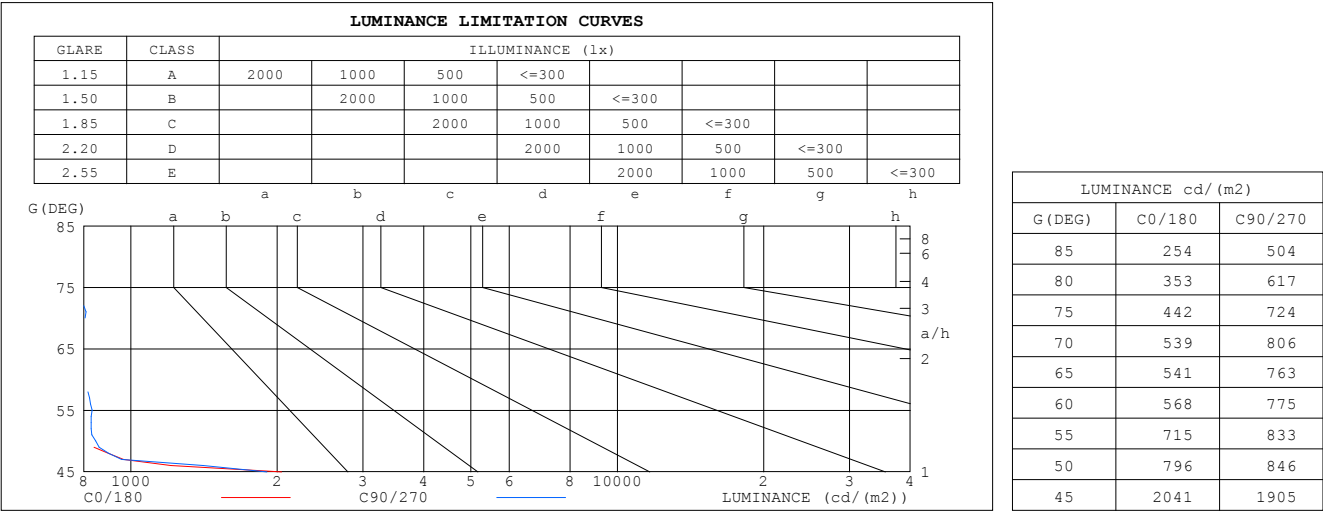
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

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	1238	1217	1158	1087	1059	1078	1141	1209	0- 10	121.3	121.3	22.4,22.4
20	673.1	628.3	549.6	472.0	433.2	457.0	527.0	627.8	10- 20	231.8	353.1	65.1,65.1
30	214.9	195.1	138.6	89.97	75.92	91.80	133.1	188.1	20- 30	140.4	493.5	91,91
40	16.51	14.46	10.90	8.440	7.585	7.903	10.43	14.04	30- 40	34.14	527.6	97.3,97.3
50	2.299	2.463	2.449	2.477	2.355	2.151	2.126	2.179	40- 50	4.213	531.9	98.1,98.1
60	1.276	1.517	1.745	1.904	1.819	1.569	1.286	1.155	50- 60	1.729	533.6	98.4,98.4
70	0.8292	1.021	1.240	1.414	1.296	1.010	0.7858	0.7036	60- 70	1.274	534.9	98.6,98.6
80	0.2752	0.3607	0.4822	0.5302	0.4272	0.3156	0.2394	0.2164	70- 80	0.7110	535.6	98.7,98.7
90	0	0	0	0	0	0	0	0	80- 90	0.1458	535.7	98.8,98.8
100	0	0	0	0	0	0	0	0	90-100	0.0000	535.7	98.8,98.8
110	0	0.0249	0.0769	0.0948	0.0137	0.0068	0	0	100-110	0.0069	535.7	98.8,98.8
120	0.3058	0.3605	0.4742	0.5819	0.2842	0.2300	0.1397	0.0993	110-120	0.1415	535.9	98.8,98.8
130	1.116	1.181	1.359	1.538	0.9786	0.8953	0.7482	0.6160	120-130	0.5761	536.4	98.9,98.9
140	2.295	2.344	2.550	2.750	2.114	2.000	1.790	1.624	130-140	1.227	537.7	99.1,99.1
150	3.391	3.456	3.588	3.695	3.244	3.129	2.959	2.800	140-150	1.716	539.4	99.4,99.4
160	3.920	3.859	3.890	3.904	3.734	3.645	3.596	3.560	150-160	1.654	541.0	99.7,99.7
170	3.797	3.711	3.623	3.593	3.536	3.521	3.569	3.585	160-170	1.053	542.1	99.9,99.9
180	3.612	3.605	3.546	3.591	3.608	3.605	3.542	3.593	170-180	0.3408	542.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		



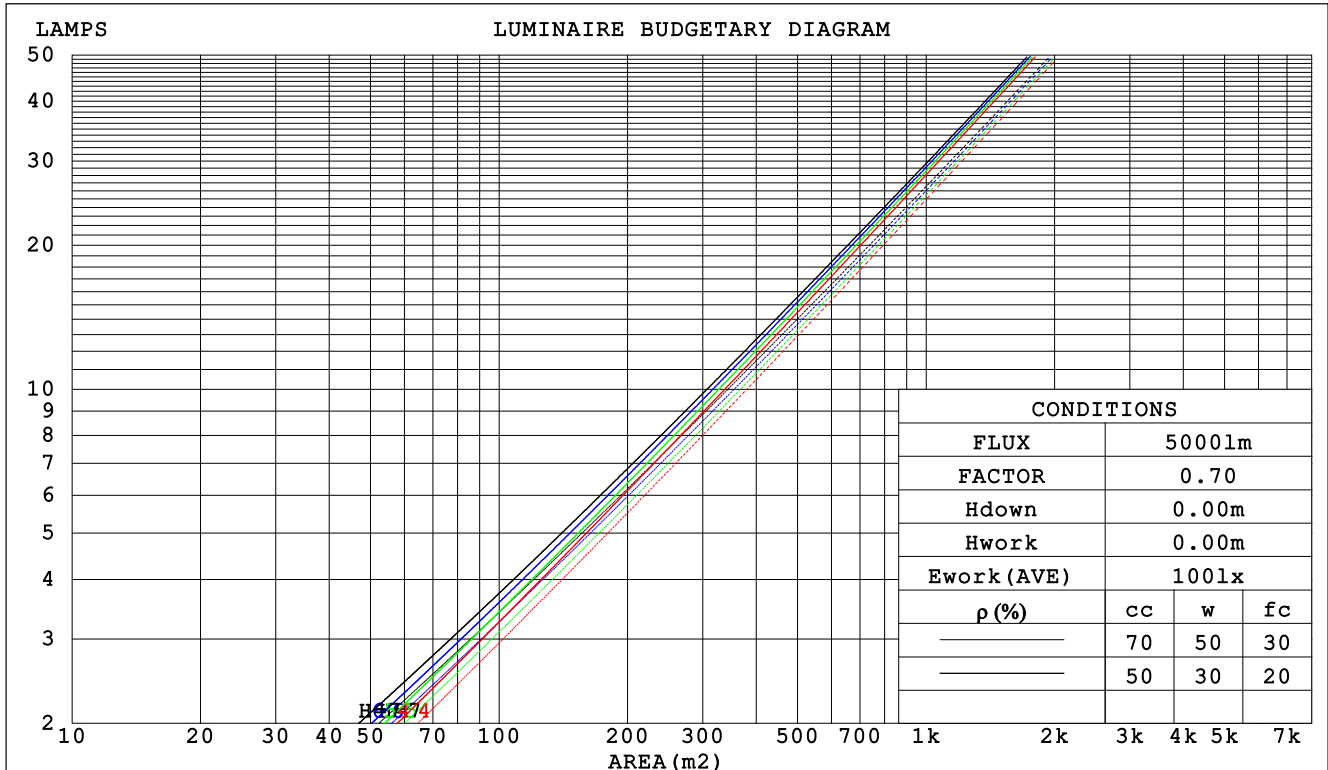
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2025-11-25

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 (5W, 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	1.03	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.06	1.02	.90	1.04	1.01	.98	1.01	.98	.96	.98	.96	.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	.96	.91	.88	.94	.90	.87	.92	.89	.86	.90	.87	.85	.88	.86	.84	.82
5.0	.91	.87	.83	.90	.86	.83	.88	.85	.82	.87	.84	.81	.85	.82	.80	.79
6.0	.87	.82	.79	.86	.82	.79	.85	.81	.78	.84	.80	.78	.82	.79	.77	.76
7.0	.84	.79	.75	.83	.78	.75	.82	.78	.75	.81	.77	.74	.79	.76	.74	.73
8.0	.80	.76	.72	.80	.75	.72	.79	.75	.72	.78	.74	.71	.77	.73	.71	.70
9.0	.77	.73	.69	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.68	.67
10.0	.74	.70	.67	.74	.70	.67	.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 (5W, 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	.086	.027	.145	.083	.026	.132	.076	.024	.120	.069	.022	.108	.063	.020		
2.0	.142	.078	.024	.136	.075	.023	.125	.070	.022	.115	.065	.020	.106	.060	.019		
3.0	.134	.071	.021	.129	.069	.021	.119	.065	.020	.111	.061	.019	.103	.057	.018		
4.0	.126	.065	.019	.122	.064	.019	.114	.060	.018	.106	.057	.017	.100	.054	.016		
5.0	.119	.061	.018	.116	.059	.017	.109	.057	.017	.102	.054	.016	.096	.052	.015		
6.0	.114	.057	.016	.110	.056	.016	.104	.053	.016	.099	.051	.015	.093	.049	.015		
7.0	.108	.054	.015	.105	.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	.156	.153	.143	.135	.105	.099	.093	.060	.057	.054	.019	.018	.018		
2.0	.162	.142	.126	.139	.122	.109	.095	.085	.076	.055	.049	.044	.018	.016	.014		
3.0	.148	.123	.103	.127	.106	.089	.087	.074	.063	.050	.043	.037	.016	.014	.012		
4.0	.136	.108	.086	.117	.093	.075	.080	.065	.053	.046	.038	.031	.015	.012	.010		
5.0	.126	.096	.073	.109	.083	.064	.075	.058	.045	.043	.034	.027	.014	.011	.009		
6.0	.118	.086	.063	.101	.075	.055	.070	.052	.039	.041	.031	.023	.013	.010	.008		
7.0	.111	.078	.055	.095	.068	.048	.066	.048	.034	.038	.028	.020	.012	.009	.007		
8.0	.105	.072	.049	.090	.062	.043	.062	.044	.030	.036	.026	.018	.012	.008	.006		
9.0	.100	.066	.044	.086	.058	.038	.059	.040	.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 (5W, 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					12.0	12.7	12.2	12.9	13.1	9.6	10.4	9.9	10.5	10.7
3H					11.8	12.5	12.1	12.7	13.0	9.6	10.3	9.8	10.5	10.7
4H					11.8	12.4	12.1	12.7	12.9	9.6	10.2	9.8	10.4	10.7
6H					11.7	12.3	12.0	12.6	12.8	9.5	10.1	9.8	10.4	10.7
8H					11.7	12.2	12.0	12.5	12.8	9.5	10.1	9.8	10.4	10.6
12H					11.6	12.2	11.9	12.5	12.8	9.5	10.0	9.8	10.3	10.6
4H 2H					11.8	12.4	12.0	12.6	12.9	9.4	10.1	9.7	10.3	10.5
3H					11.6	12.2	11.9	12.5	12.8	9.4	10.0	9.7	10.2	10.5
4H					11.5	12.1	11.9	12.4	12.7	9.4	9.9	9.8	10.2	10.6
6H					11.5	11.9	11.8	12.3	12.6	9.4	9.8	9.8	10.2	10.6
8H					11.4	11.8	11.8	12.2	12.6	9.4	9.8	9.8	10.2	10.5
12H					11.4	11.7	11.8	12.1	12.5	9.3	9.7	9.8	10.1	10.5
8H 4H					11.4	11.8	11.8	12.2	12.6	9.3	9.7	9.7	10.1	10.5
6H					11.3	11.7	11.8	12.1	12.5	9.3	9.6	9.7	10.0	10.5
8H					11.3	11.6	11.7	12.0	12.5	9.3	9.6	9.7	10.0	10.5
12H					11.2	11.5	11.7	11.9	12.4	9.2	9.5	9.7	10.0	10.5
12H 4H					11.4	11.7	11.8	12.1	12.5	9.2	9.6	9.6	10.0	10.4
6H					11.3	11.6	11.7	12.0	12.5	9.2	9.5	9.7	10.0	10.4
8H					11.2	11.5	11.7	11.9	12.4	9.2	9.5	9.7	9.9	10.4
Variations with the observer position at spacings:														
S = 1.0H					+ 4.6 / - 5.4					+ 2.6 / - 2.5				
1.5H					+ 7.1 / - 5.2					+ 4.7 / - 2.5				
2.0H					+ 3.5 / - 1.1					+ 2.3 / - 0.5				

CIE Pub.117 Corrected 542.4 lm Total Lamp Luminous Flux. (8log(F/F0) = -2.1)

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 (5W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

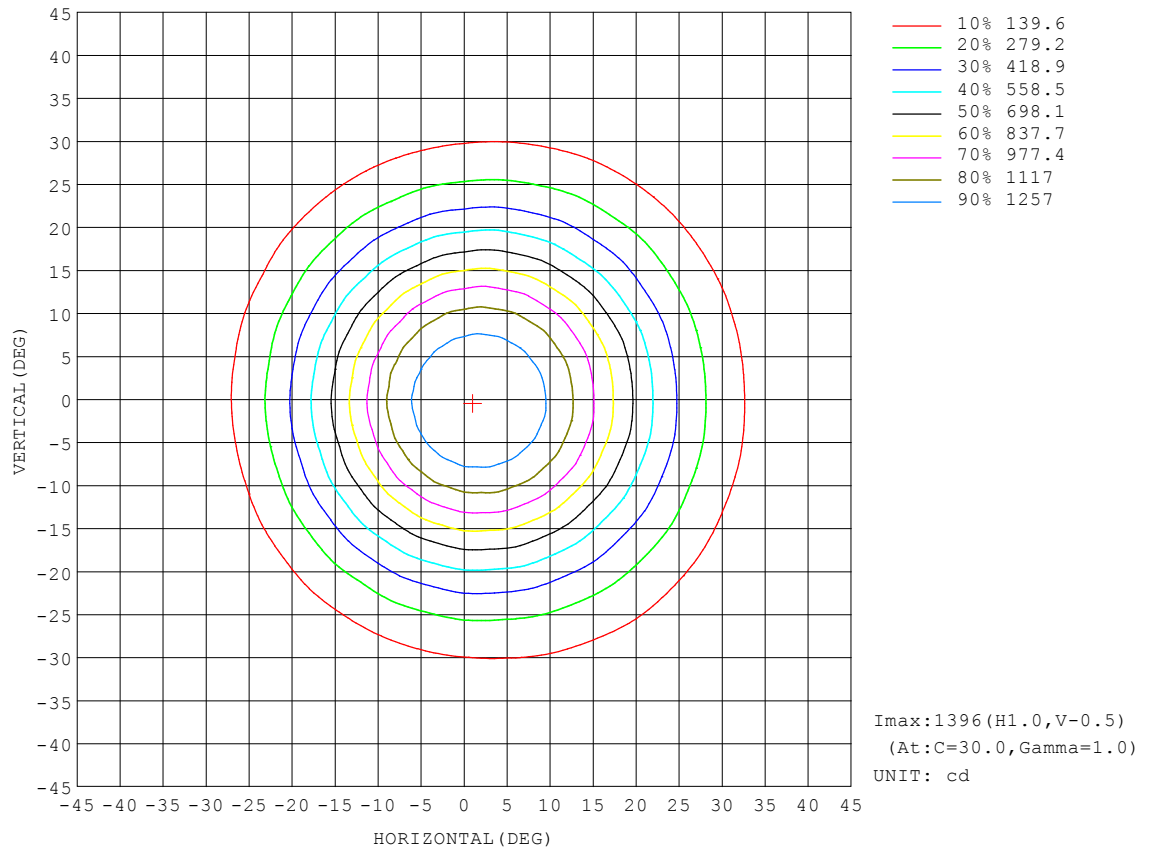
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	90	84	81	89	84	81	89	83	80	77
0.80	97	92	88	96	91	88	95	91	88	84
1.00	101	96	92	100	95	92	98	95	91	88
1.25	104	100	96	103	99	96	101	98	95	91
1.50	107	102	99	106	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	105	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 (5W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

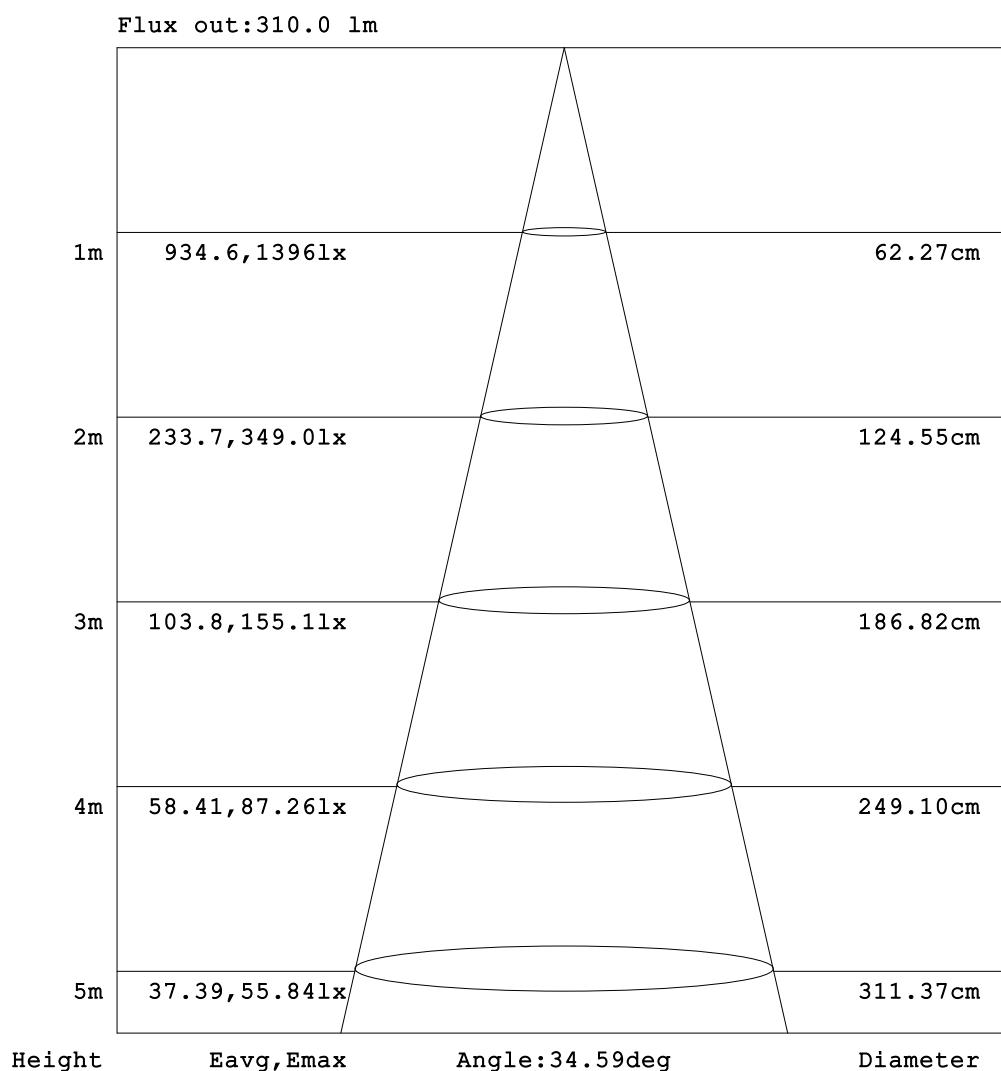


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2025-11-25

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 (5W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:



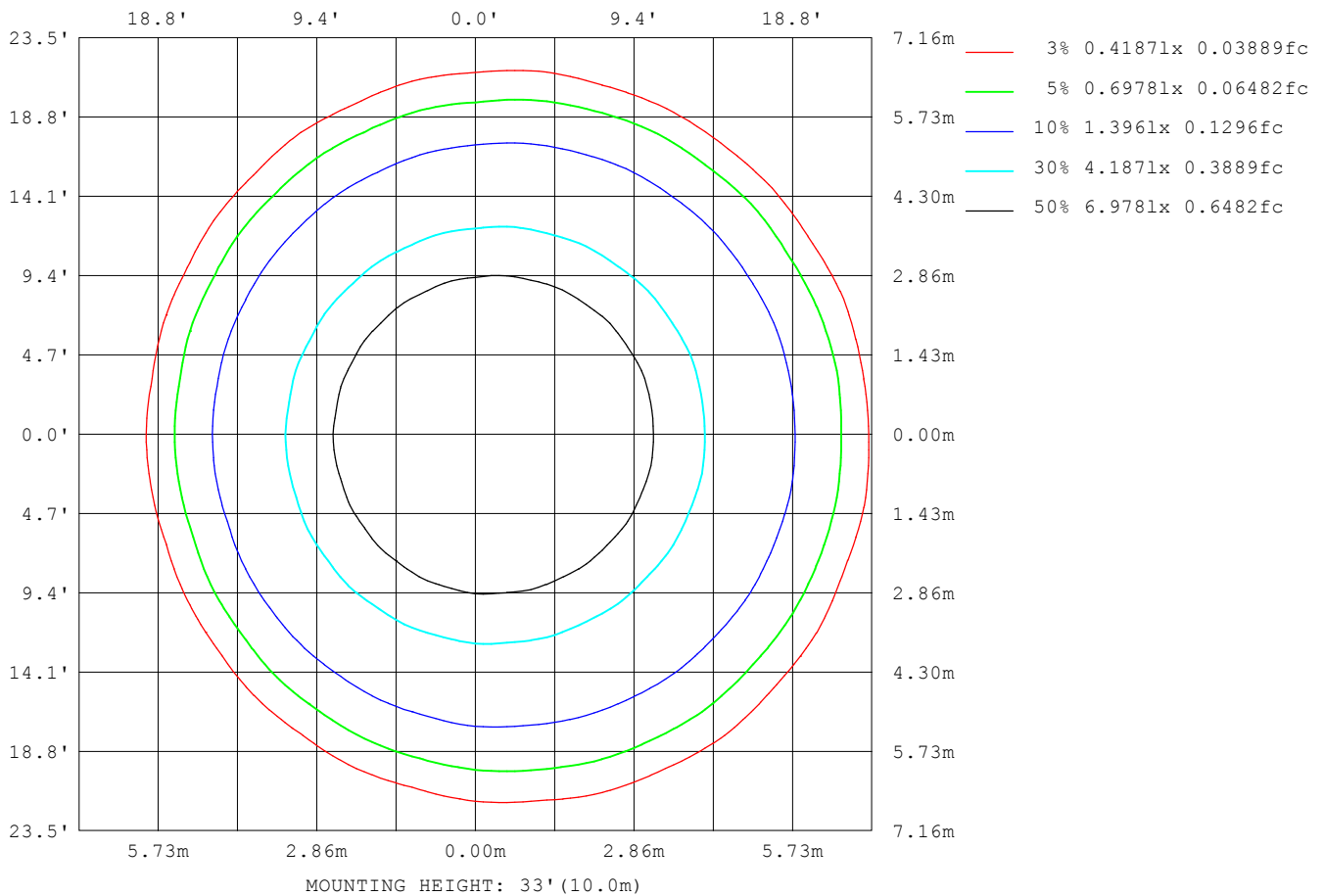
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 (5W, 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 (5W, 36°)	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Utopia Lighting	SUR.:	PROTECTION ANGLE:

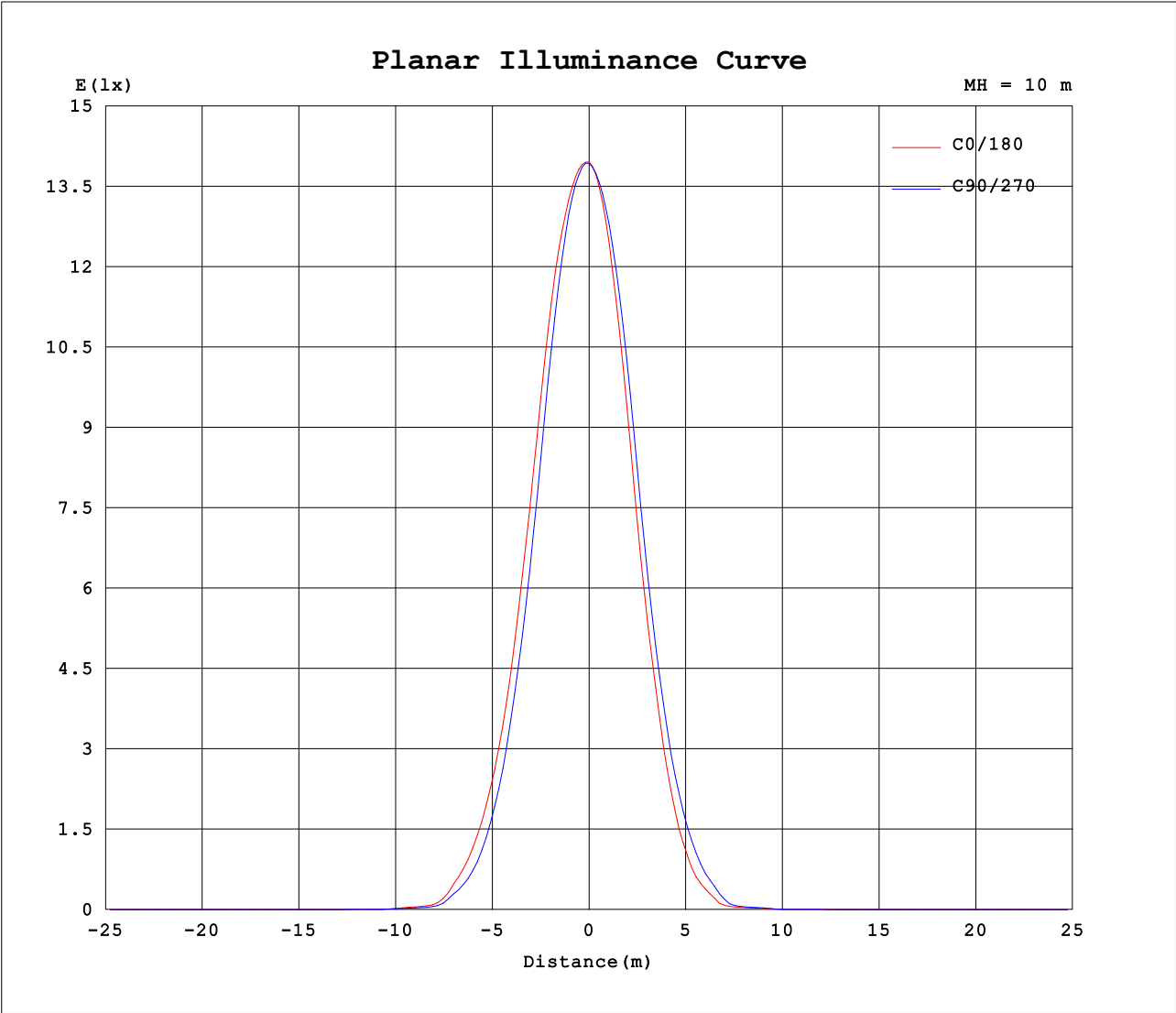
AvgL	cd/m2
L_0~180 (65) av	684
L_0~180 (75) av	565
L_0~180 (85) av	332
L_90~270 (65) av	662
L_90~270 (75) av	566
L_90~270 (85) av	322
L_45 (65) av	674
L_45 (75) av	569
L_45 (85) av	290

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 (5W, 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	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394
5	1362	1367	1364	1366	1362	1361	1355	1355	1347	1344	1335	1332	1322	1319	1309	1308	1299	1299	1297
10	1238	1243	1233	1233	1219	1215	1198	1190	1169	1158	1136	1127	1106	1097	1077	1073	1059	1059	1059
15	982	990	976	974	950	941	911	898	867	856	826	815	785	775	750	745	727	729	728
20	673	679	661	657	633	624	597	588	559	550	524	515	490	484	460	453	433	435	433
25	406	411	401	398	379	373	349	338	316	304	283	273	252	242	224	214	201	202	201
30	215	217	211	208	199	191	176	169	150	139	127	115	103	95.7	84.2	80.9	73.9	74.9	75.9
35	87.7	91.7	85.1	88.1	82.6	82.3	72.4	67.0	60.7	54.4	46.0	39.4	32.1	27.4	21.5	18.1	15.6	14.9	15.0
40	16.5	16.5	15.6	15.4	14.6	14.3	13.2	12.6	11.6	10.9	10.1	9.46	8.99	8.59	8.28	8.09	7.80	7.68	7.59
45	6.49	7.15	7.04	7.68	7.42	7.67	7.40	6.91	6.31	6.06	5.39	5.08	4.33	4.10	3.43	3.23	3.03	2.99	2.93
50	2.30	2.31	2.40	2.42	2.48	2.44	2.45	2.42	2.45	2.45	2.51	2.45	2.51	2.46	2.50	2.44	2.45	2.38	2.36
55	1.84	1.85	1.93	1.93	2.03	1.98	2.02	2.02	2.13	2.15	2.22	2.17	2.22	2.22	2.25	2.18	2.21	2.14	2.09
60	1.28	1.28	1.38	1.42	1.52	1.52	1.60	1.61	1.72	1.75	1.85	1.81	1.91	1.88	1.93	1.89	1.94	1.88	1.82
65	1.03	1.02	1.10	1.10	1.20	1.22	1.33	1.35	1.44	1.45	1.56	1.54	1.62	1.59	1.66	1.62	1.65	1.59	1.58
70	0.83	0.85	0.91	0.93	1.02	1.02	1.12	1.14	1.23	1.24	1.34	1.38	1.41	1.39	1.44	1.39	1.41	1.34	1.30
75	0.51	0.50	0.58	0.57	0.65	0.66	0.75	0.76	0.84	0.84	0.91	0.94	0.97	0.93	0.96	0.91	0.91	0.84	0.80
80	0.28	0.27	0.32	0.30	0.37	0.35	0.43	0.42	0.49	0.48	0.53	0.50	0.55	0.51	0.55	0.50	0.51	0.44	0.43
85	0.10	0.06	0.12	0.09	0.14	0.13	0.18	0.15	0.21	0.20	0.24	0.20	0.24	0.21	0.22	0.16	0.19	0.13	0.16
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	0.00	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
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.02	0.00	0.03	0.00
110	0.00	0.03	0.00	0.04	0.01	0.04	0.01	0.06	0.03	0.08	0.05	0.09	0.06	0.11	0.08	0.13	0.10	0.14	0.01
115	0.10	0.14	0.11	0.14	0.13	0.16	0.13	0.19	0.18	0.22	0.21	0.26	0.23	0.29	0.29	0.33	0.30	0.34	0.11
120	0.31	0.34	0.31	0.36	0.34	0.38	0.36	0.42	0.42	0.47	0.49	0.53	0.53	0.59	0.58	0.63	0.64	0.66	0.28
125	0.64	0.68	0.65	0.69	0.68	0.73	0.73	0.79	0.79	0.86	0.87	0.93	0.94	1.01	1.01	1.07	1.07	1.11	0.56
130	1.12	1.13	1.14	1.16	1.16	1.21	1.21	1.27	1.29	1.36	1.39	1.45	1.47	1.54	1.54	1.59	1.60	1.63	0.98
135	1.66	1.69	1.67	1.71	1.72	1.76	1.78	1.84	1.86	1.93	1.96	2.03	2.10	2.13	2.15	2.20	2.21	2.25	1.51
140	2.30	2.30	2.30	2.32	2.32	2.37	2.38	2.45	2.48	2.55	2.58	2.65	2.67	2.74	2.76	2.81	2.81	2.86	2.11
145	2.87	2.91	2.89	2.92	2.91	2.96	2.97	3.04	3.06	3.14	3.16	3.21	3.23	3.28	3.32	3.35	3.36	3.40	2.72
150	3.39	3.42	3.39	3.44	3.44	3.47	3.46	3.52	3.52	3.59	3.59	3.65	3.65	3.70	3.69	3.75	3.75	3.79	3.24
155	3.77	3.81	3.76	3.79	3.75	3.81	3.78	3.84	3.82	3.88	3.83	3.87	3.91	3.89	3.90	3.91	3.96	3.94	3.62
160	3.92	3.97	3.92	3.90	3.84	3.88	3.89	3.88	3.85	3.89	3.88	3.89	3.89	3.90	3.91	3.91	3.96	3.95	3.73
165	3.95	3.90	3.92	3.90	3.86	3.83	3.87	3.82	3.84	3.79	3.81	3.74	3.78	3.74	3.77	3.74	3.81	3.77	3.67
170	3.80	3.75	3.77	3.72	3.74	3.68	3.72	3.68	3.69	3.62	3.65	3.58	3.60	3.59	3.60	3.58	3.62	3.62	3.54
175	3.63	3.61	3.62	3.60	3.61	3.62	3.62	3.56	3.57	3.56	3.55	3.53	3.53	3.54	3.53	3.54	3.53	3.51	3.51
180	3.61	3.61	3.59	3.60	3.61	3.60	3.58	3.56	3.55	3.55	3.55	3.55	3.55	3.59	3.59	3.57	3.55	3.56	3.61

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 (5W, 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	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394	1394		
5	1292	1296	1294	1301	1302	1309	1312	1320	1325	1333	1337	1345	1347	1353	1354	1361	1362		
10	1051	1061	1060	1077	1080	1100	1108	1131	1141	1163	1174	1194	1201	1218	1222	1236	1238		
15	720	731	731	749	755	779	790	822	836	869	886	918	932	959	966	984	983		
20	428	438	439	454	460	480	490	515	527	556	572	600	614	642	653	675	674		
25	200	206	212	221	231	249	259	279	291	313	326	350	359	381	388	404	405		
30	75.0	79.4	81.4	89.1	94.5	104	111	123	133	147	157	174	183	193	202	212	214		
35	13.5	15.2	14.9	17.0	18.6	21.9	25.1	30.9	36.0	41.7	47.3	57.1	60.2	71.2	74.6	86.7	83.6		
40	7.49	7.51	7.54	7.84	7.97	8.46	9.00	9.77	10.4	11.4	12.1	12.9	13.6	14.5	15.1	16.3	16.3		
45	2.90	2.82	2.82	2.79	2.78	2.79	2.82	2.88	2.91	3.14	3.23	3.92	3.90	4.66	4.86	5.87	6.14		
50	2.34	2.25	2.23	2.16	2.14	2.15	2.14	2.16	2.13	2.07	2.13	2.12	2.16	2.20	2.20	2.18	2.23		
55	2.09	2.00	1.98	1.88	1.87	1.80	1.80	1.75	1.77	1.72	1.70	1.71	1.72	1.71	1.75	1.74	1.79		
60	1.79	1.68	1.66	1.57	1.57	1.46	1.44	1.31	1.29	1.21	1.21	1.15	1.17	1.14	1.18	1.16	1.24		
65	1.57	1.48	1.46	1.36	1.32	1.21	1.19	1.07	1.07	0.99	0.99	0.95	0.95	0.95	0.96	0.95	0.99		
70	1.26	1.17	1.13	1.02	1.00	0.91	0.89	0.79	0.79	0.71	0.73	0.69	0.71	0.70	0.75	0.73	0.80		
75	0.79	0.71	0.71	0.64	0.62	0.55	0.54	0.50	0.47	0.43	0.44	0.42	0.44	0.41	0.45	0.42	0.49		
80	0.44	0.36	0.37	0.31	0.33	0.27	0.27	0.21	0.24	0.21	0.22	0.18	0.23	0.21	0.24	0.20	0.27		
85	0.14	0.09	0.11	0.06	0.08	0.03	0.06	0.02	0.05	0.00	0.05	0.01	0.05	0.02	0.07	0.05	0.10		
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
105	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		
110	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.07	0.11	0.07	0.10	0.06	0.09	0.06	0.08	0.04	0.06	0.00	0.04	0.00	0.03	0.01	0.02	0.01		
120	0.24	0.28	0.23	0.26	0.20	0.23	0.18	0.20	0.14	0.17	0.13	0.14	0.08	0.12	0.07	0.09	0.06		
125	0.54	0.55	0.51	0.53	0.50	0.49	0.42	0.44	0.37	0.39	0.35	0.34	0.28	0.32	0.29	0.28	0.23		
130	0.95	0.97	0.92	0.92	0.87	0.87	0.80	0.81	0.75	0.75	0.68	0.67	0.62	0.61	0.58	0.58	0.54		
135	1.48	1.49	1.45	1.44	1.38	1.37	1.31	1.30	1.23	1.21	1.15	1.14	1.07	1.06	1.00	1.01	0.99		
140	2.08	2.08	2.03	2.02	1.97	1.95	1.88	1.86	1.79	1.77	1.71	1.68	1.65	1.60	1.56	1.56	1.52		
145	2.68	2.68	2.64	2.63	2.60	2.56	2.50	2.46	2.40	2.37	2.31	2.28	2.22	2.20	2.16	2.16	2.12		
150	3.24	3.21	3.17	3.16	3.10	3.10	3.04	3.03	2.96	2.94	2.87	2.86	2.80	2.79	2.74	2.75	2.72		
155	3.59	3.58	3.52	3.53	3.47	3.49	3.46	3.44	3.39	3.39	3.32	3.32	3.26	3.28	3.23	3.27	3.24		
160	3.68	3.66	3.67	3.68	3.61	3.61	3.58	3.56	3.60	3.57	3.56	3.59	3.54	3.58	3.53	3.58	3.55		
165	3.66	3.62	3.65	3.61	3.60	3.60	3.61	3.58	3.60	3.60	3.58	3.57	3.60	3.60	3.61	3.62	3.66		
170	3.56	3.52	3.55	3.52	3.52	3.51	3.53	3.54	3.57	3.55	3.59	3.56	3.60	3.58	3.59	3.57	3.64		
175	3.50	3.51	3.51	3.53	3.52	3.50	3.50	3.50	3.51	3.53	3.55	3.56	3.56	3.56	3.53	3.55	3.55		
180	3.60	3.59	3.59	3.61	3.60	3.58	3.54	3.54	3.54	3.54	3.55	3.55	3.59	3.60	3.55	3.55	3.55		

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: