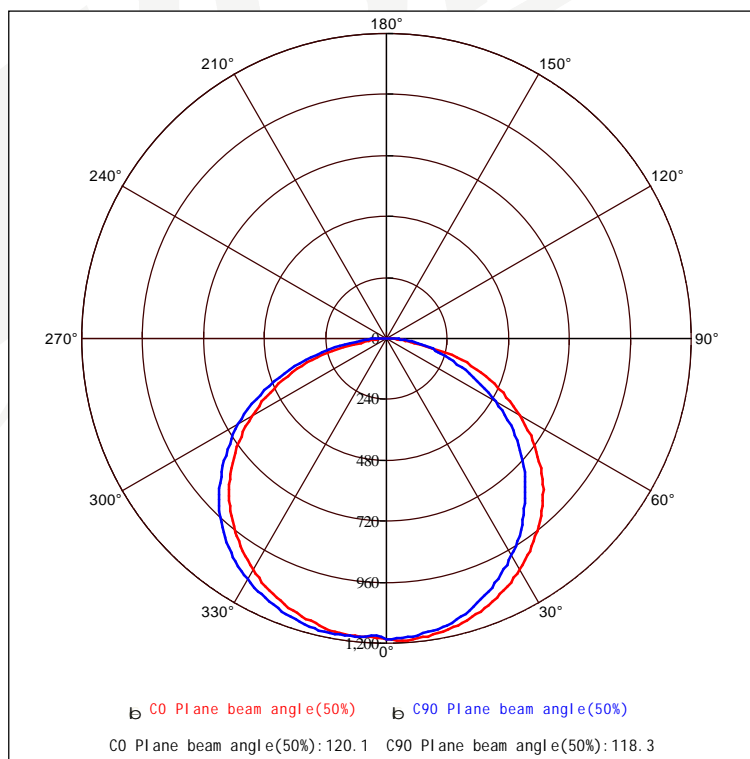


Goniophotometer Test Report

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm						
Lamp Name: LED DOWN LIGHT		Lamp Type:		Weight(kg):		
Lamp ID: LP-DL40MA01-F		Lamp Spec:		Shape Size:		
Manufactory:		Sur(m ²):		Protect Angle(Deg):		
Light Source Data			Photometric Data			
Model	LP-DL40MA01-F		Peak Value(cd)	1194.6	Efficiency(lm/w)	85.1
Nominal P(w)	1.0		Position	225.0, 4.0	UP(C0-C180)	0.0
Rated Volt(v)	220.0		Total Flux(lm)	3371.66	Down(C0-C180)	49.4
Rated Flux(lm)	1.0		Up Flux Rate(%)	0.0	UP(C180-C360)	0.0
Illuminant QTY	1		Dw Flux Rate(%)	100.0	Down(C180-C360)	50.6

Planar Intensity Distribution Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

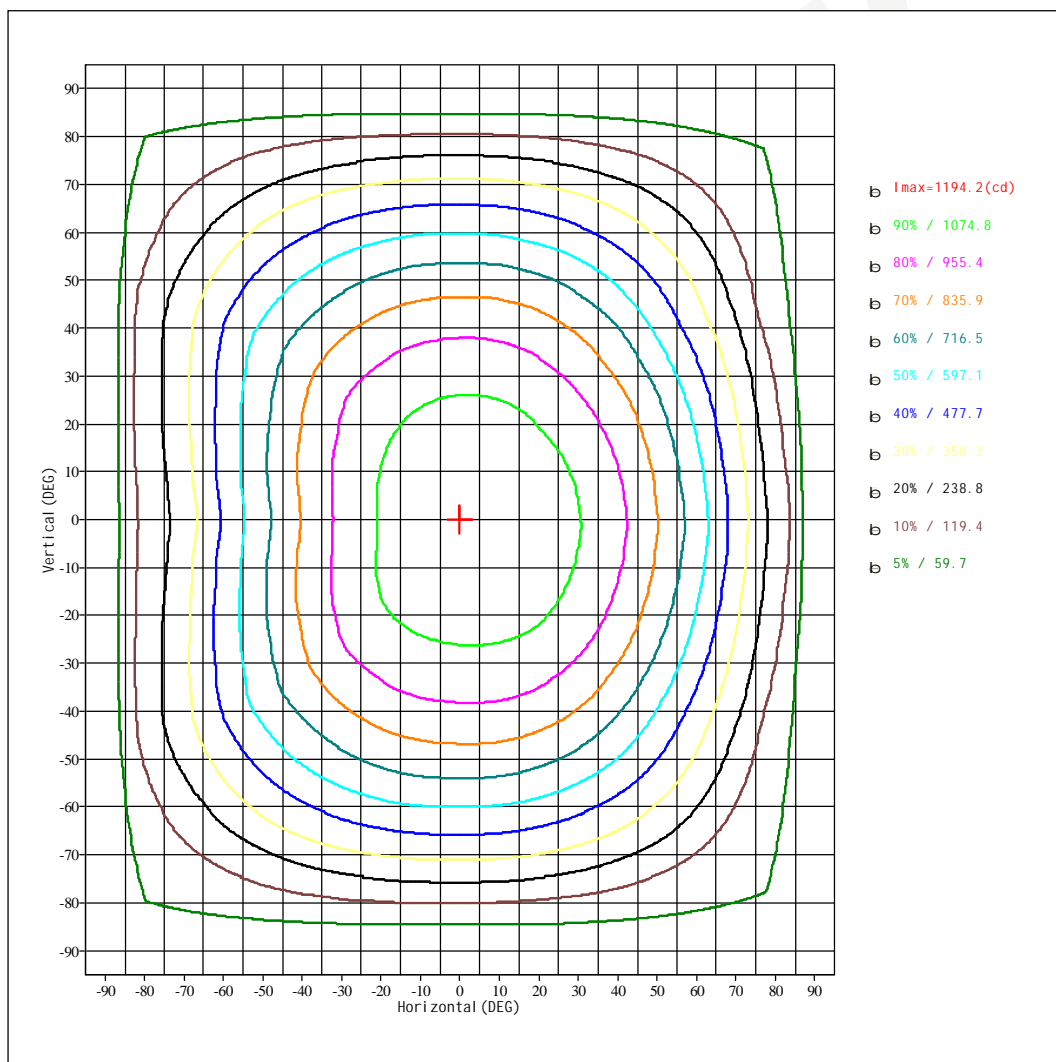
Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

Planar IsoCandela Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

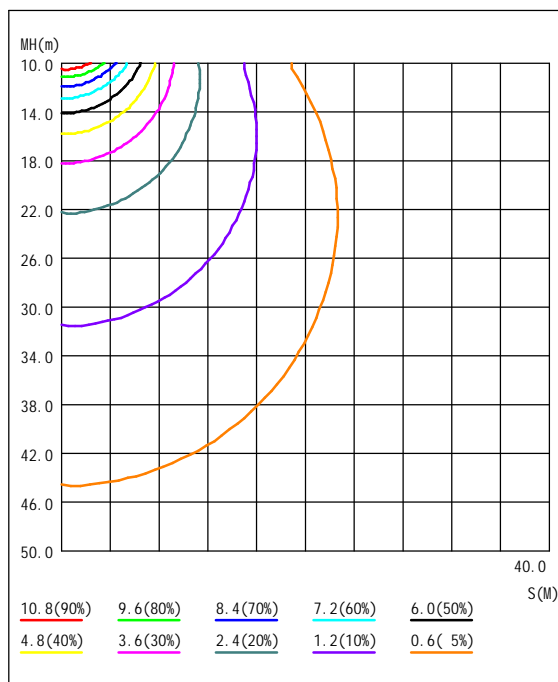
Humi di ty(%): 60

Date: 2023-11-7

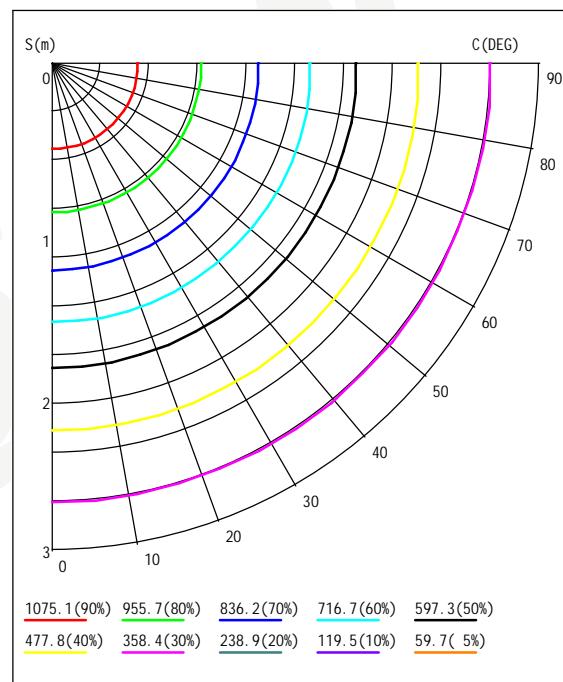
Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

Spacial ISOLUX Curve



Planar ISOLUX Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

Luminance Limit Curve

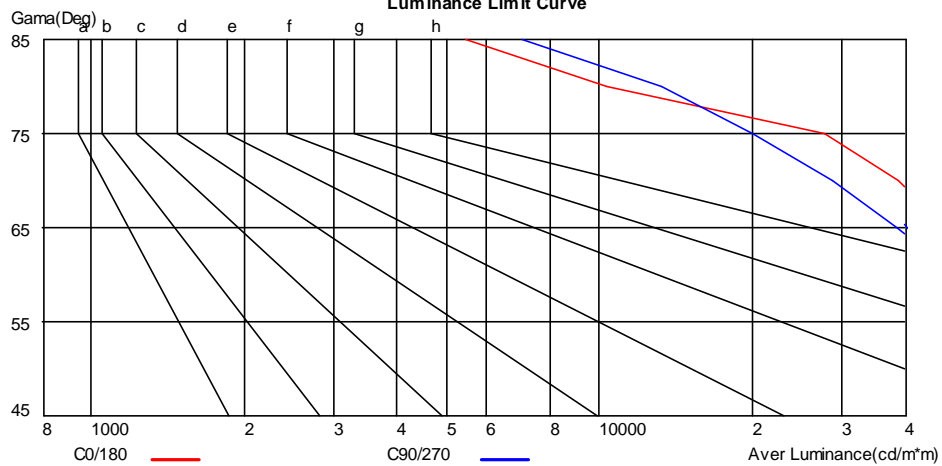
Aver Luminance(cd/m²)

Gm(Deg)	45	50	55	60	65	70	75	80	85
C0	86621.8	78448.3	69536.0	59550.5	49675.0	38759.8	27744.1	10370.4	5450.9
C90	76274.0	67638.1	58830.2	48821.3	38687.8	28831.3	20116.4	13327.0	7045.4

Glare

Glare	Class	Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

Luminance Limit Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

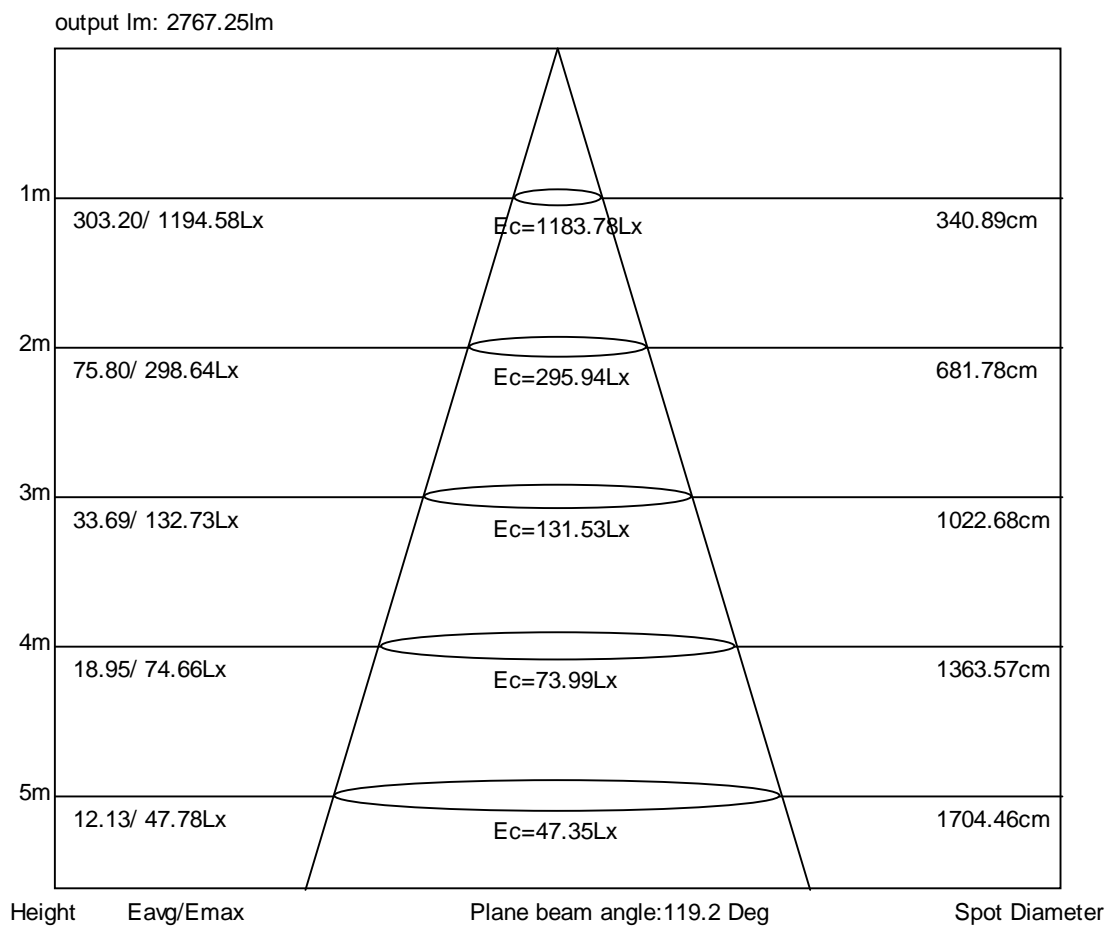
Humi di ty(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m ²):	Protect Angle(Deg):

Average Illumination



Gama Angle Range: -90 - 90(Deg)

Gama interval(Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval(Deg): 45

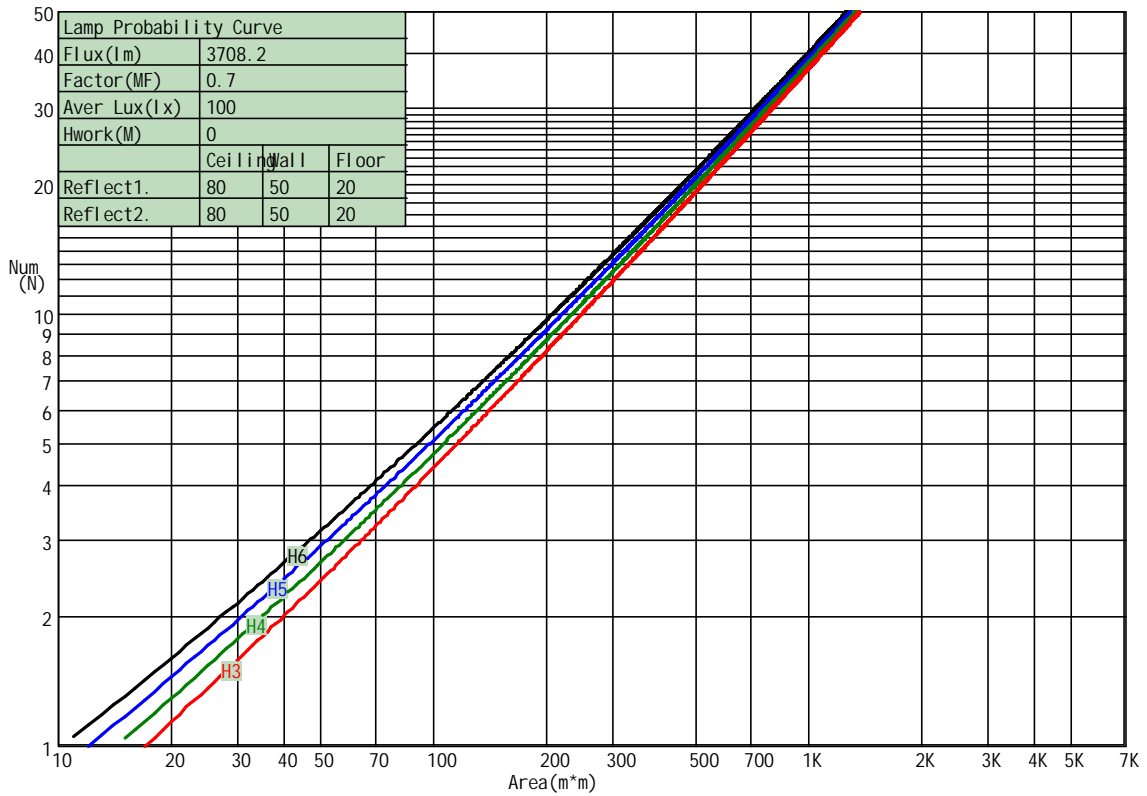
Humi di ty(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m ²):	Protect Angle(Deg):

Lamp Probability Curve



Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

UF Table

Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5
Wall	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3
Floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
0.60	52	37	28	51	37	28	48	35	27
0.80	57	41	30	55	40	29	51	38	28
1.00	60	43	31	58	42	31	53	39	29
1.25	63	45	32	60	44	31	55	41	30
1.50	65	47	33	62	45	32	56	41	30
2.00	68	49	34	64	47	33	57	43	31
2.50	69	50	34	65	47	33	58	43	30
3.00	70	51	34	66	48	33	58	43	30
4.00	72	52	34	67	49	33	59	43	30
5.00	73	53	34	68	49	33	59	43	29

CoEfficients Utilization

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			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
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.9	0.93	0.9	0.88	0.89	0.87	0.85
2	0.9	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.71
3	0.78	0.7	0.63	0.77	0.69	0.63	0.74	0.67	0.61	0.71	0.65	0.6	0.68	0.63	0.59
4	0.69	0.6	0.53	0.68	0.59	0.53	0.65	0.58	0.52	0.63	0.56	0.51	0.61	0.55	0.51
5	0.62	0.52	0.45	0.6	0.52	0.45	0.58	0.51	0.45	0.56	0.49	0.44	0.54	0.48	0.44
6	0.55	0.46	0.39	0.54	0.46	0.39	0.52	0.45	0.39	0.51	0.44	0.39	0.49	0.43	0.38
7	0.5	0.41	0.35	0.49	0.41	0.35	0.48	0.4	0.34	0.46	0.39	0.34	0.45	0.39	0.34
8	0.45	0.37	0.31	0.45	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.3	0.41	0.35	0.3
9	0.42	0.33	0.28	0.41	0.33	0.28	0.4	0.33	0.27	0.39	0.32	0.27	0.38	0.32	0.27
10	0.38	0.3	0.25	0.38	0.3	0.25	0.37	0.3	0.25	0.36	0.29	0.25	0.35	0.29	0.25

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxcg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humidity(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight(kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

Wall Exi tance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.32	0.18	0.06	0.31	0.18	0.06	0.3	0.17	0.05	0.29	0.17	0.05	0.28	0.16	0.05
2	0.3	0.16	0.05	0.29	0.16	0.05	0.28	0.16	0.05	0.27	0.15	0.05	0.26	0.15	0.05
3	0.28	0.15	0.04	0.27	0.15	0.04	0.26	0.14	0.04	0.25	0.14	0.04	0.24	0.13	0.04
4	0.25	0.13	0.04	0.25	0.13	0.04	0.24	0.13	0.04	0.23	0.12	0.04	0.22	0.12	0.04
5	0.24	0.12	0.03	0.23	0.12	0.03	0.22	0.12	0.03	0.21	0.11	0.03	0.21	0.11	0.03
6	0.22	0.11	0.03	0.21	0.11	0.03	0.21	0.11	0.03	0.2	0.1	0.03	0.19	0.1	0.03
7	0.2	0.1	0.03	0.2	0.1	0.03	0.19	0.1	0.03	0.19	0.1	0.03	0.18	0.09	0.03
8	0.19	0.09	0.03	0.19	0.09	0.03	0.18	0.09	0.03	0.17	0.09	0.03	0.17	0.09	0.03
9	0.18	0.09	0.02	0.17	0.08	0.02	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02
10	0.17	0.08	0.02	0.16	0.08	0.02	0.16	0.08	0.02	0.15	0.08	0.02	0.15	0.08	0.02

Ceiling Cavi ty Exi tance CoEfficients

Ceiling(%)		0			0			0			0			0	
Wall (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Floor (%)		0			0			0			0			0	
0	0.19	0.19	0.19	0.16	0.16	0.16	0.11	0.11	0.11	0.06	0.06	0.06	0.02	0.02	0.02
1	0.18	0.16	0.13	0.15	0.13	0.11	0.11	0.09	0.08	0.06	0.05	0.05	0.02	0.02	0.01
2	0.17	0.13	0.1	0.15	0.11	0.08	0.1	0.08	0.06	0.06	0.05	0.03	0.02	0.01	0.01
3	0.17	0.11	0.07	0.14	0.1	0.06	0.1	0.07	0.04	0.06	0.04	0.03	0.02	0.01	0.01
4	0.16	0.1	0.06	0.14	0.09	0.05	0.09	0.06	0.04	0.05	0.04	0.02	0.02	0.01	0.01
5	0.15	0.09	0.05	0.13	0.08	0.04	0.09	0.05	0.03	0.05	0.03	0.02	0.02	0.01	0.01
6	0.14	0.08	0.04	0.12	0.07	0.03	0.09	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
7	0.14	0.08	0.03	0.12	0.07	0.03	0.08	0.05	0.02	0.05	0.03	0.01	0.02	0.01	0
8	0.13	0.07	0.03	0.11	0.06	0.02	0.08	0.04	0.02	0.05	0.03	0.01	0.01	0.01	0
9	0.12	0.06	0.02	0.11	0.06	0.02	0.07	0.04	0.02	0.04	0.02	0.01	0.01	0.01	0
10	0.12	0.06	0.02	0.1	0.05	0.02	0.07	0.04	0.01	0.04	0.02	0.01	0.01	0.01	0

Gama Angle Range: -90 - 90(Deg)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 25

Humi di ty(%): 60

Tester: zxcg

Date: 2023-11-7

Distance(m): 7.070

Remark:

Test System: ZWL Goni ophotometer System V3.0

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Size:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

Ring-shaped Flux Data Table

Gm\C(Deg)	0	45	90	135	180	225	270	315	Range	Ring	T(lm)
5	1189	1180	1177	1170	1177	1192	1180	1190	0-5	28.3	28.3
10	1176	1155	1160	1162	1171	1186	1182	1180	5-10	84.1	112
15	1156	1136	1131	1142	1151	1172	1173	1164	10-15	138	250
20	1127	1107	1088	1121	1124	1148	1153	1136	15-20	188	438
25	1091	1079	1038	1088	1089	1116	1125	1101	20-25	232	671
30	1045	1031	982	1048	1046	1073	1091	1057	25-30	270	941
35	992	988	915	1000	995	1024	1047	1006	30-35	301	1242
40	934	928	840	942	935	965	992	943	35-40	322	1564
45	866	861	763	873	867	892	925	875	40-45	333	1897
50	784	788	676	800	789	810	841	797	45-50	334	2231
55	695	710	588	719	697	707	754	696	50-55	322	2554
60	596	623	488	641	599	601	665	584	55-60	299	2853
65	497	534	387	540	495	487	555	473	60-65	266	3120
70	388	432	288	436	382	367	435	357	65-70	223	3343
75	277	327	201	329	272	249	317	244	70-75	173	3515
80	104	223	133	225	94	122	195	82	75-80	114	3629
85	54.5	100	70.5	81.4	47.5	34.2	94.7	32.9	80-85	57	3686
90	22.6	37.8	50.3	33	15.9	15.7	29.9	16.4	85-90	22.1	3708
95									90-95		
100									95-100		
105									100-105		
110									105-110		
115									110-115		
120									115-120		
125									120-125		
130									125-130		
135									130-135		
140									135-140		
145									140-145		
150									145-150		
155									150-155		
160									155-160		
165									160-165		
170									165-170		
175									170-175		
180									175-180		

Gama Angle Range: -90 - 90(Deg)

Gama interval (Deg): 1

Temperature(Deg): 25

Tester: zxg

Distance(m): 7.070

Test System: ZWL Goniophotometer System V3.0

C Angle Range: 0 - 180(Deg)

C interval (Deg): 45

Humi di ty(%): 60

Date: 2023-11-7

Remark:

Measured Para U: 214.0V I: 280.9mA P: 39.62W PF: 0.659 Test LM: 3371.66lm		
Lamp Name: LED DOWN LIGHT	Lamp Type:	Weight (kg):
Lamp ID: LP-DL40MA01-F	Lamp Spec:	Shape Si ze:
Manufactory:	Sur(m^2):	Protect Angle(Deg):

CD Table

Gm\C(Deg)	0	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340
5.0	1189	1185	1181	1179	1177	1175	1172	1171	1174	1177	1184	1191	1188	1183	1182	1187	1190	1189
10.0	1176	1167	1157	1157	1159	1160	1161	1163	1167	1171	1178	1185	1185	1183	1182	1181	1179	1178
15.0	1156	1147	1138	1134	1132	1133	1138	1143	1147	1151	1160	1170	1172	1173	1171	1167	1163	1160
20.0	1127	1118	1109	1101	1093	1096	1111	1122	1123	1124	1134	1145	1149	1152	1149	1141	1135	1131
25.0	1091	1086	1081	1066	1047	1049	1071	1088	1089	1089	1101	1113	1119	1123	1120	1109	1100	1095
30.0	1045	1039	1032	1015	992	996	1026	1047	1046	1046	1058	1070	1079	1087	1084	1068	1056	1051
35.0	992	990	988	964	931	934	972	999	997	995	1008	1021	1032	1042	1038	1019	1004	998
40.0	934	931	928	899	859	862	909	942	938	935	948	962	974	986	981	959	942	938
45.0	866	864	862	829	784	787	837	872	870	867	878	890	903	917	914	891	874	870
50.0	784	786	788	752	701	703	759	798	794	789	798	807	820	834	832	812	796	790
55.0	695	702	708	670	615	617	676	716	706	697	701	706	722	743	741	715	696	696
60.0	596	608	620	579	518	522	591	636	617	599	600	601	622	651	647	611	585	590
65.0	497	513	530	486	419	420	490	535	515	495	491	488	509	540	537	500	476	486
70.0	388	407	427	385	320	321	387	430	406	382	375	368	389	420	418	383	361	374
75.0	277	299	322	286	229	229	287	322	297	272	262	251	271	302	301	268	248	263
80.0	104	156	210	193	153	153	195	211	151	94	106	119	146	179	170	119	84.3	94.2
85.0	54.5	74.6	95.4	90.6	77	72.8	77.8	77.7	62.4	47.5	41.7	35.7	54.1	81.5	81.2	53.2	35.2	45
90.0	22.6	29.3	36.1	41.9	47.6	46.5	38.7	31.1	23.4	15.9	15.8	15.7	20.3	26.8	26.9	20.8	17.1	19.9
95.0																		
100.0																		
105.0																		
110.0																		
115.0																		
120.0																		
125.0																		
130.0																		
135.0																		
140.0																		
145.0																		
150.0																		
155.0																		
160.0																		
165.0																		
170.0																		
175.0																		
180.0																		

Gama Angle Range: -90 - 90(Deg)

C Angle Range: 0 - 180(Deg)

Gama interval (Deg): 1

C interval (Deg): 45

Temperature(Deg): 25

Humi di ty(%): 60

Tester: zyg

Date: 2023-11-7

Distance(m): 7.070

Remark:

Test System: ZWL Goniophotometer System V3.0