

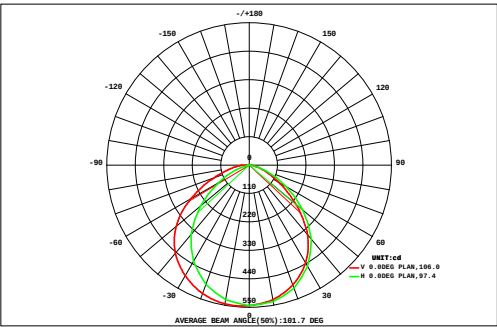
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		408.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	143.0V x 153.3H
	At 50% of Imax	97.4V x 106.0H
	At 90% of Imax	43.7V x 51.0H
Beam Flux	Total	998.6 lumens per klm.
	To 10% of Imax	976.0 lumens per klm.
	To 50% of Imax	727.2 lumens per klm.
	To 90% of Imax	206.3 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:87.42lm/W	
MODEL	LLS-COVE1-W40-15W-24V-001	Imax(cd)	545.7
NOMINAL POWER(W)	15	AVAILABILITY(%)	97.8
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	1307
NOMINAL FLUX(lm)	1336.95	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1337
TEST VOLTAGE(V)	24	θ @50%(H,V)	106, 97DEG

AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
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	0.00
80	0.00	0.01	0.05	0.12	0.21	0.31	0.42	0.52	0.62	0.77	0.95	1.07	1.10	1.01	0.82	0.57	0.31	0.08	8.93	1.82
70	0.00	0.05	0.22	0.50	0.88	1.35	1.85	2.33	2.72	2.94	2.96	2.78	2.39	1.87	1.30	0.77	0.36	0.08	25.4	22.0
60	0.00	0.11	0.41	0.94	1.70	2.68	3.77	4.78	5.52	5.84	5.72	5.17	4.26	3.15	2.02	1.09	0.45	0.09	47.7	46.4
50	0.01	0.17	0.61	1.42	2.71	4.39	6.21	7.78	8.81	9.16	8.88	7.97	6.51	4.72	2.91	1.45	0.55	0.11	74.4	73.6
40	0.01	0.22	0.80	1.96	3.88	6.33	8.75	10.6	11.7	12.0	11.6	10.5	8.63	6.27	3.83	1.83	0.65	0.12	99.8	99.3
30	0.02	0.26	0.97	2.48	5.00	8.05	10.8	12.8	13.9	14.1	13.7	12.3	10.2	7.53	4.62	2.19	0.73	0.12	120	119
20	0.02	0.29	1.11	2.92	5.84	9.22	12.2	14.2	15.3	15.6	15.0	13.5	11.3	8.39	5.21	2.46	0.80	0.13	134	133
10	0.02	0.30	1.18	3.15	6.32	9.79	12.8	14.9	16.1	16.4	15.7	14.1	11.7	8.79	5.52	2.62	0.84	0.13	140	140
0	0.01	0.30	1.20	3.17	6.34	9.84	12.8	15.0	16.2	16.5	15.8	14.1	11.7	8.81	5.57	2.65	0.84	0.13	141	141
-10	0.01	0.28	1.12	2.97	5.96	9.36	12.3	14.5	15.7	15.9	15.2	13.7	11.4	8.55	5.37	2.54	0.82	0.12	136	135
-20	0.01	0.24	0.99	2.57	5.19	8.38	11.3	13.4	14.4	14.7	14.1	12.7	10.6	7.90	4.90	2.31	0.76	0.10	125	124
-30	0.00	0.18	0.80	2.05	4.14	6.79	9.39	11.4	12.4	12.7	12.3	11.1	9.25	6.82	4.17	1.98	0.67	0.08	106	106
-40	0.00	0.11	0.60	1.49	2.92	4.83	6.88	8.62	9.64	9.97	9.70	8.80	7.28	5.33	3.28	1.60	0.55	0.07	81.7	81.0
-50	0.00	0.05	0.40	0.97	1.84	2.99	4.30	5.50	6.33	6.73	6.63	6.03	5.00	3.68	2.33	1.22	0.41	0.06	54.5	53.4
-60	0.00	0.01	0.21	0.54	1.00	1.55	2.18	2.79	3.29	3.59	3.64	3.39	2.91	2.24	1.52	0.87	0.29	0.06	30.1	27.7
-70	0.00	0.00	0.05	0.19	0.34	0.51	0.69	0.87	1.05	1.23	1.36	1.41	1.35	1.17	0.90	0.55	0.19	0.05	11.9	3.76
-80	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.03	0.05	0.10	0.18	0.25	0.28	0.26	0.16	0.06	0.02	1.43	0.00
-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	0.00
Φ t	0.11	2.58	10.7	27.4	54.3	86.4	117	140	154	158	153	139	116	86.5	54.5	26.9	9.28	1.55	1337	---
Φ a	0.00	0.13	8.01	25.2	52.3	84.6	115	138	152	157	152	137	114	85.0	53.1	25.5	7.64	0.32	---	1307

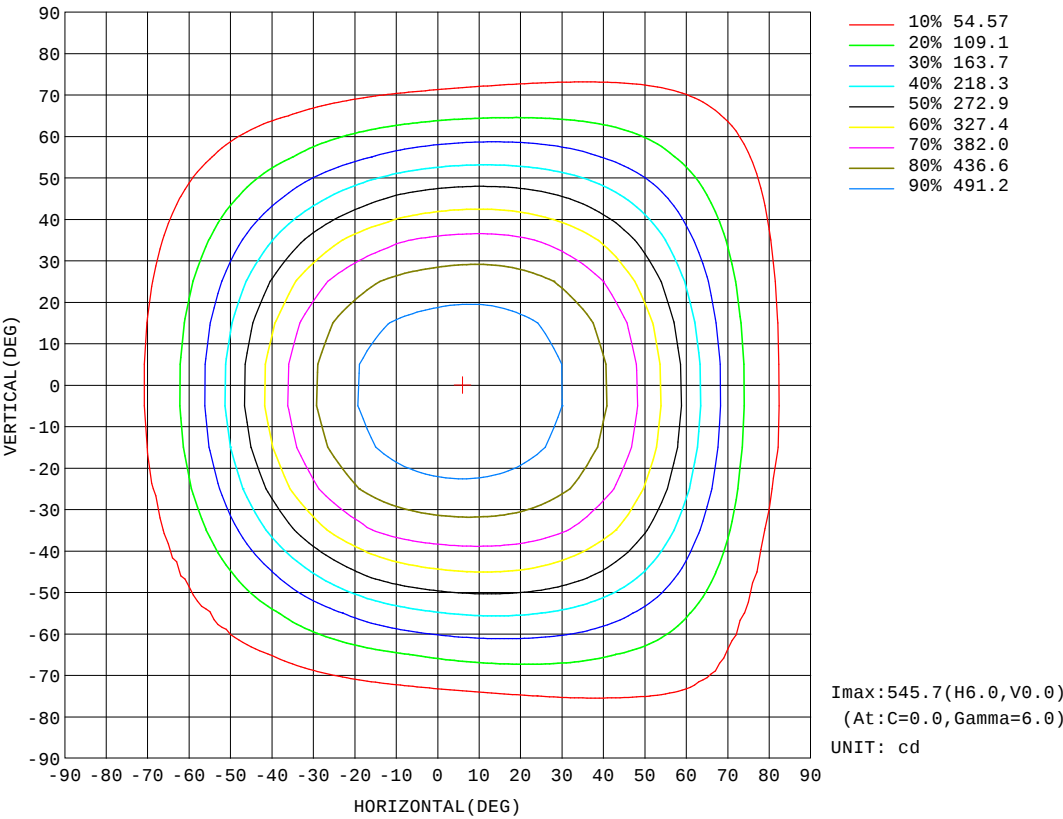
one-half-peak spread: U:50.2,D:47.8 , L:53.2,R:53.3 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

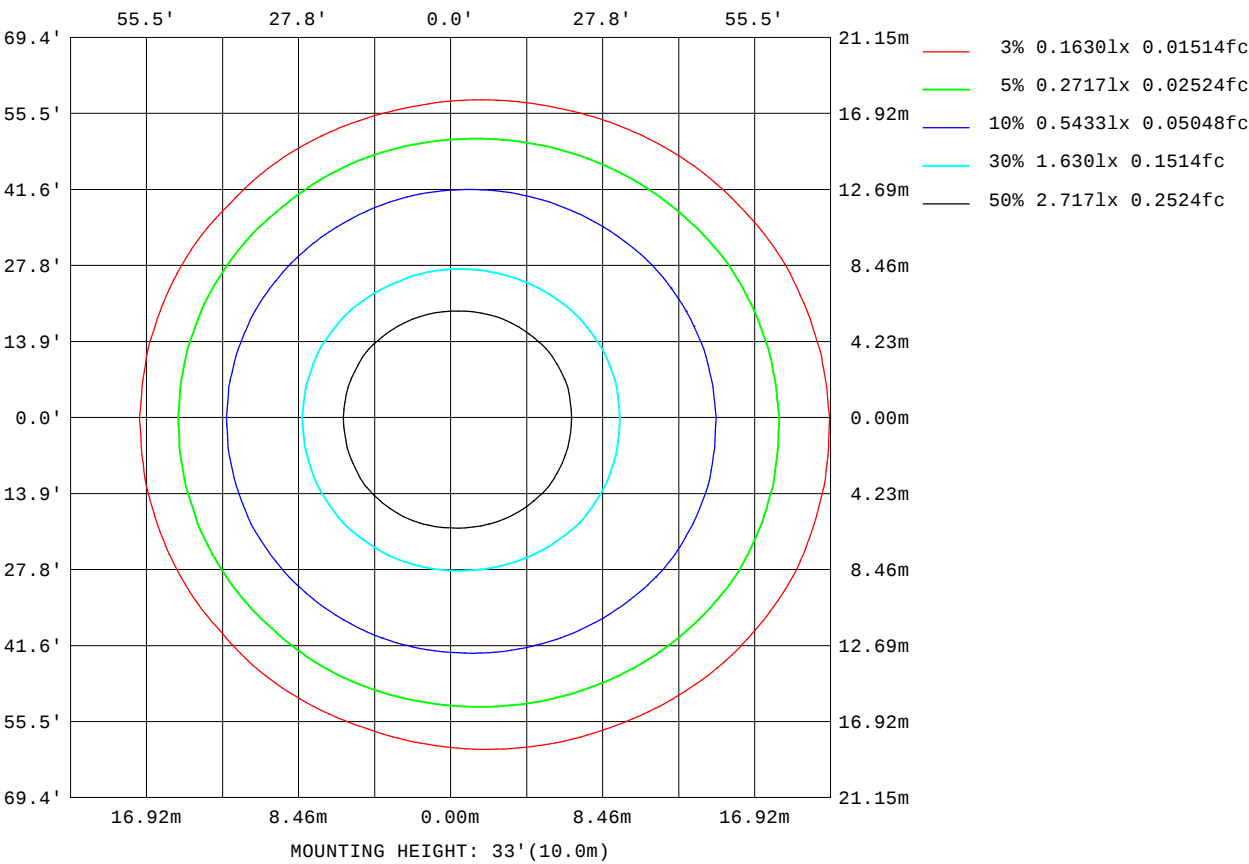


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

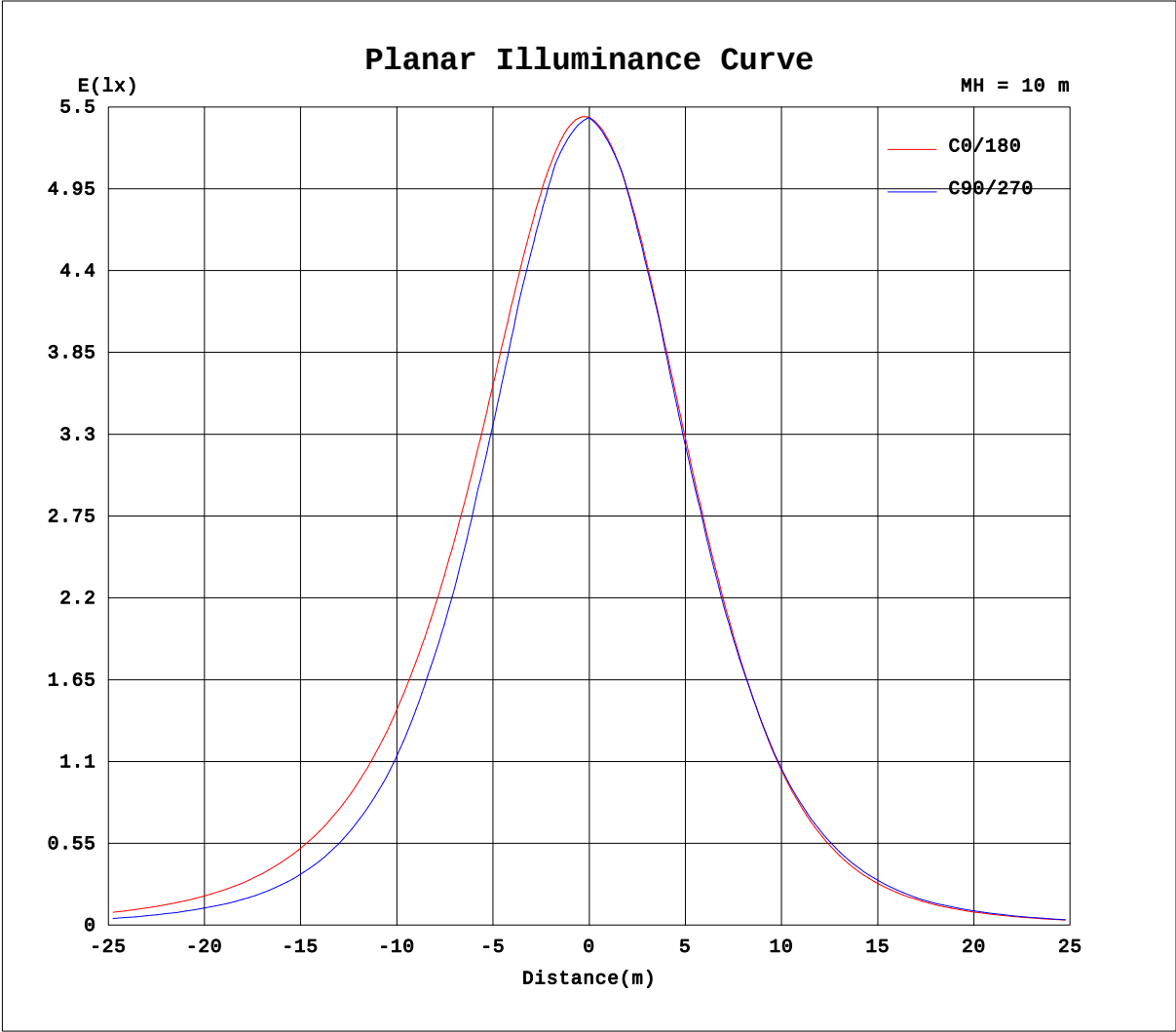
Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

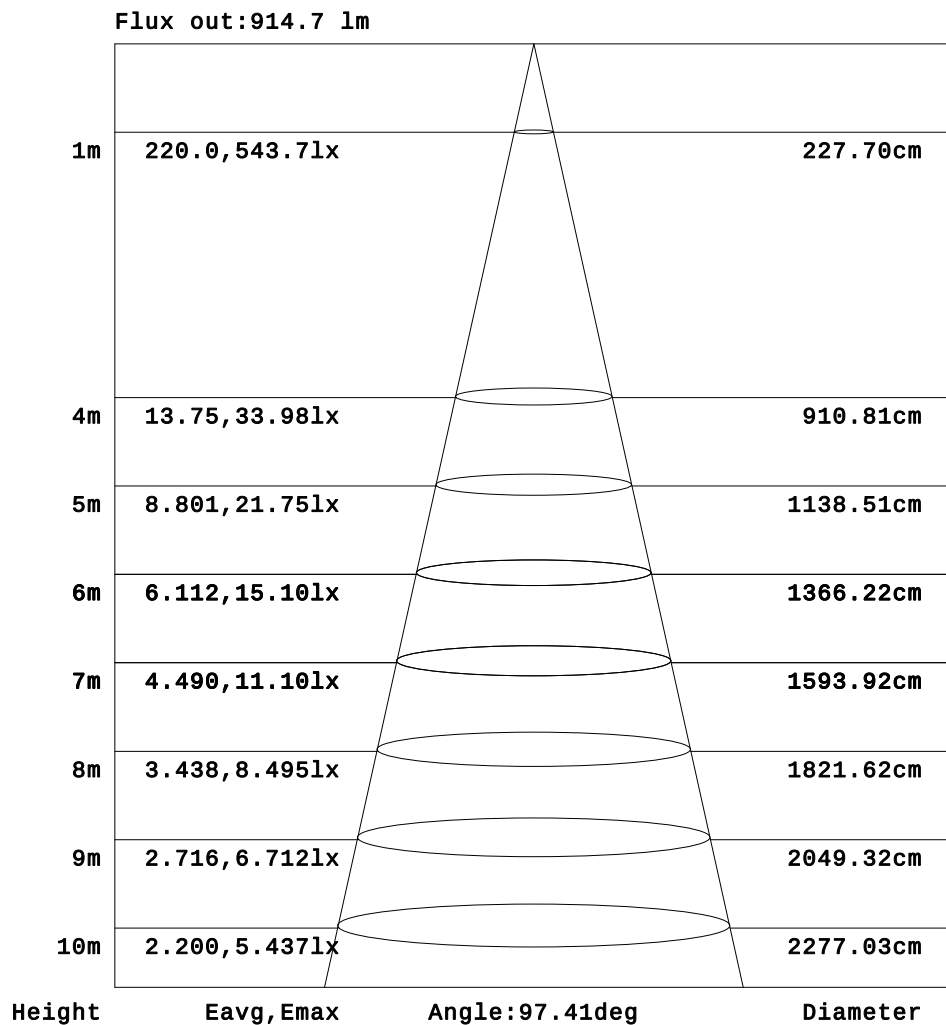


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-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
-85	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
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.34	1.67	3.19	4.02	4.50	4.96	5.41	5.93	6.53	7.30	8.35	9.82	11.8
-75	0.00	0.00	0.00	0.00	1.44	4.26	7.93	11.1	14.3	17.0	19.7	22.3	25.0	27.7	30.4	33.1	35.8	38.6	41.5
-70	0.00	0.00	0.00	0.00	2.88	8.53	15.5	20.5	25.3	30.1	34.9	39.7	44.6	49.5	54.3	58.8	63.2	67.3	71.1
-65	0.00	0.00	0.00	1.23	7.05	16.8	24.7	30.9	39.4	47.4	55.6	64.1	72.9	81.6	90.1	98.0	105	111	117
-60	0.00	0.00	0.00	2.45	11.2	25.0	33.9	41.2	53.5	64.8	76.3	88.6	101	114	126	137	147	155	162
-55	0.00	0.00	0.00	4.72	16.8	31.8	42.1	53.7	70.6	86.3	103	121	139	157	173	188	200	209	216
-50	0.00	0.00	0.00	6.99	22.3	38.6	50.2	66.2	87.6	108	130	154	177	200	221	239	252	263	270
-45	0.00	0.00	0.24	11.3	29.6	44.9	61.8	82.9	108	135	163	193	222	248	271	291	305	315	322
-40	0.00	0.00	0.49	15.6	36.9	51.1	73.4	99.7	129	162	197	232	266	296	321	344	358	368	374
-35	0.00	0.00	2.80	20.3	40.7	59.4	84.5	115	150	189	230	269	306	337	363	384	398	407	413
-30	0.00	0.00	5.11	25.0	44.5	67.7	95.6	130	172	217	263	306	346	379	406	425	438	447	452
-25	0.00	0.00	7.92	27.4	48.9	74.1	105	143	189	238	287	333	373	406	432	452	465	474	479
-20	0.00	0.00	10.7	29.7	53.4	80.4	115	157	206	260	310	360	400	433	459	478	492	501	506
-15	0.00	0.03	12.0	31.8	55.5	83.8	120	166	218	273	326	374	413	446	471	491	506	516	521
-10	0.00	0.06	13.4	33.9	57.7	87.1	125	175	230	287	341	387	427	459	483	504	519	530	536
-5	0.00	0.90	15.2	35.0	58.7	88.7	128	177	233	291	346	392	431	463	488	508	523	533	539
0	0.00	1.75	17.0	36.1	59.8	90.4	130	180	237	295	351	397	436	467	492	513	527	537	543
5	0.00	1.06	17.1	35.5	58.5	88.4	127	176	232	290	344	390	429	461	486	506	520	530	535
10	0.00	0.36	17.1	34.9	57.3	86.4	124	173	227	285	338	384	423	455	481	499	513	522	528
15	0.00	0.99	16.8	33.9	55.3	82.9	118	163	214	269	320	368	407	439	463	482	495	504	509
20	0.00	1.61	16.4	32.9	53.4	79.4	112	153	201	253	303	351	390	422	446	464	477	485	491
25	0.00	0.83	14.2	30.6	49.4	73.1	103	139	183	230	277	321	359	391	415	433	446	455	461
30	0.00	0.04	12.1	28.3	45.5	66.9	93.1	125	164	207	250	291	329	360	384	402	416	425	430
35	0.00	0.02	10.8	25.7	41.3	60.2	83.0	111	143	179	217	254	288	317	341	359	375	384	391
40	0.00	0.00	9.56	23.2	37.1	53.5	72.9	95.8	122	152	184	216	246	274	298	316	334	344	351
45	0.00	0.00	7.30	19.9	31.9	46.0	62.2	80.9	102	126	151	178	203	227	248	265	281	291	298
50	0.00	0.00	5.05	16.7	26.8	38.4	51.4	66.0	82.3	100	119	139	160	180	198	215	228	238	246
55	0.00	0.00	3.88	13.4	22.0	31.4	41.8	53.3	65.9	79.5	94.0	109	124	139	153	166	177	186	192
60	0.00	0.00	2.71	10.1	17.2	24.4	32.2	40.5	49.4	58.8	68.6	78.6	88.8	98.8	109	118	126	133	138
65	0.00	0.00	1.35	6.33	11.4	17.2	23.1	28.9	35.4	41.9	48.9	55.8	62.7	69.5	76.1	82.4	88.1	93.1	97.4
70	0.00	0.00	0.00	2.58	5.62	9.92	14.0	17.4	21.3	25.0	29.2	32.9	36.6	40.1	43.6	47.0	50.3	53.5	56.5
75	0.00	0.00	0.00	1.29	2.81	4.96	6.99	8.69	10.7	12.6	14.6	16.5	18.3	20.1	21.8	23.5	25.2	26.7	29.0
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
85	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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.6372A P:15.29W PF:1.000 Freq:0Hz Lamp Flux:1336.95x1 lm		
NAME: 8.02.003.0441 LLS-COVE1-W40-15W-24V-001	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:202410040
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-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
-85	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
-80	14.3	17.2	20.4	23.6	26.9	29.9	32.5	34.7	36.2	37.2	37.4	37.0	31.8	22.9	17.1	15.9	15.4	14.8
-75	44.5	47.5	50.3	52.8	54.9	56.5	57.3	57.4	56.7	55.1	52.8	49.7	43.9	32.6	22.3	18.0	16.6	13.3
-70	74.6	77.7	80.2	82.0	83.0	83.0	82.1	80.1	77.1	73.1	68.1	62.4	56.1	42.2	27.4	20.2	17.8	11.8
-65	121	124	126	126	125	123	119	113	106	97.6	88.1	78.1	68.0	51.5	35.3	23.0	18.9	11.7
-60	167	170	172	171	168	163	156	146	135	122	108	93.8	79.8	60.9	43.3	25.9	19.9	11.7
-55	221	224	225	223	218	211	201	187	171	153	133	113	93.7	73.2	50.4	29.3	19.6	11.4
-50	276	279	278	275	269	259	246	229	208	184	159	132	107	85.5	57.5	32.6	19.2	11.2
-45	326	328	328	324	317	306	290	270	246	217	186	153	122	94.6	66.4	37.9	19.8	9.92
-40	377	378	377	373	365	352	334	312	284	250	213	174	136	104	75.3	43.2	20.4	8.65
-35	416	416	414	409	401	387	368	344	315	277	236	193	150	113	81.5	49.2	19.0	6.94
-30	454	454	452	446	436	422	402	377	346	304	259	211	163	122	87.7	55.2	17.6	5.23
-25	481	481	477	470	459	444	424	397	366	324	277	226	175	128	91.3	59.9	24.4	2.62
-20	508	507	502	495	482	466	445	418	385	344	295	241	186	135	95.0	64.7	31.1	0.00
-15	523	521	516	507	494	477	455	428	396	355	304	249	192	140	97.9	66.1	36.8	0.00
-10	538	536	530	520	506	488	466	439	406	366	313	257	199	145	101	67.6	42.5	0.00
-5	542	540	534	524	510	491	469	442	408	367	316	259	201	145	101	67.5	42.3	5.28
0	546	544	538	528	513	494	472	444	410	369	319	262	203	146	101	67.3	42.1	10.6
5	538	537	532	522	509	491	468	441	406	364	313	257	199	144	100	67.1	42.2	11.0
10	531	530	525	517	505	488	465	437	402	359	307	252	195	143	99.3	66.9	42.2	11.5
15	512	512	508	500	489	472	450	422	387	345	295	241	187	136	95.9	65.0	41.4	13.2
20	494	494	491	484	473	457	435	407	372	331	283	231	179	130	92.5	63.2	40.6	14.9
25	464	465	463	456	445	430	409	382	347	307	262	214	167	123	88.3	61.2	39.8	14.9
30	434	436	434	429	418	403	382	357	322	284	242	198	154	116	84.2	59.2	39.1	14.9
35	394	396	394	388	378	364	345	320	289	256	218	177	140	106	78.6	56.1	37.8	14.9
40	355	356	353	348	339	325	307	284	257	227	194	157	125	96.7	73.0	53.0	36.5	14.9
45	302	304	302	298	290	278	262	243	220	195	167	138	111	87.6	67.4	50.1	35.3	14.9
50	250	252	251	247	240	230	217	201	182	162	140	118	97.3	78.6	61.8	47.1	34.1	14.8
55	196	198	198	196	191	183	174	162	148	133	117	100	84.2	69.3	55.8	43.6	32.5	14.8
60	142	144	145	144	141	137	131	123	114	104	93.3	82.2	71.0	60.1	49.8	40.1	30.9	14.8
65	101	103	104	105	104	102	98.6	94.2	88.8	82.5	75.4	67.8	60.0	52.1	44.3	36.8	29.3	14.9
70	59.2	61.7	63.8	65.4	66.5	66.8	66.5	65.3	63.5	60.8	57.5	53.5	49.0	44.1	38.9	33.6	27.8	14.9
75	31.5	34.0	36.7	39.1	41.3	43.0	44.3	45.0	45.1	44.6	43.5	41.7	39.5	36.7	33.6	29.7	23.8	14.9
80	3.67	6.40	9.55	12.8	16.1	19.3	22.1	24.6	26.7	28.3	29.4	29.9	29.9	29.4	28.4	25.9	19.9	15.0
85	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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-10-24

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: