

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	410.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
---	---

Beam Spread	At 10% of Imax	148.8V x 156.6H
	At 50% of Imax	99.8V x 102.2H
	At 90% of Imax	42.8V x 43.5H

Beam Flux	Total	998.4 lumens per klm.
	To 10% of Imax	980.8 lumens per klm.
	To 50% of Imax	688.0 lumens per klm.
	To 90% of Imax	164.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

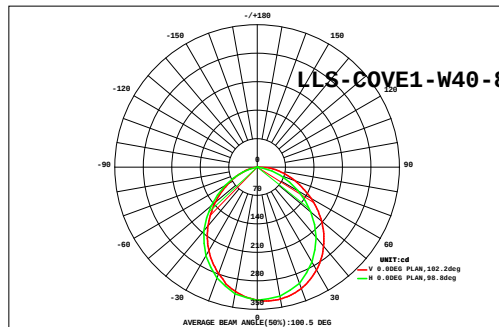
Luminaire Efficiency(Light Output Ratio)	100.0 %
--	---------

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm		
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024060065
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:98.49lm/W	
MODEL	016(3000K)-120V-24P	Imax(cd)	330.2
NOMINAL POWER(W)	8	AVAILABILITY(%)	98.5
RATED VOLTAGE(V)	122	Avai. FLUX(lm)	791.4
NOMINAL FLUX(lm)	803.868	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	803.9
TEST VOLTAGE(V)	121.4	θ @50%(H,V)	102,100DEG

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	0.00	0.03	0.10	0.23	0.39	0.58	0.78	0.98	1.16	1.28	1.32	1.26	1.08	0.83	0.54	0.26	0.03	10.9	8.33
70	0.00	0.01	0.14	0.41	0.78	1.24	1.73	2.18	2.54	2.73	2.72	2.52	2.15	1.68	1.17	0.69	0.31	0.05	23.1	22.2
60	0.00	0.05	0.29	0.73	1.36	2.14	2.95	3.67	4.21	4.44	4.33	3.89	3.22	2.42	1.62	0.91	0.38	0.07	36.7	36.3
50	0.00	0.09	0.43	1.06	1.97	3.06	4.18	5.17	5.87	6.14	5.92	5.27	4.30	3.17	2.07	1.13	0.45	0.08	50.4	50.1
40	0.00	0.13	0.57	1.37	2.54	3.92	5.32	6.53	7.35	7.64	7.33	6.49	5.26	3.85	2.47	1.31	0.51	0.09	62.7	62.5
30	0.00	0.16	0.68	1.63	3.00	4.61	6.22	7.58	8.50	8.81	8.43	7.46	6.05	4.41	2.81	1.47	0.56	0.10	72.5	72.3
20	0.00	0.18	0.76	1.82	3.34	5.12	6.87	8.32	9.31	9.62	9.20	8.13	6.57	4.79	3.04	1.58	0.59	0.10	79.4	79.2
10	0.00	0.19	0.79	1.90	3.50	5.36	7.18	8.71	9.68	9.97	9.53	8.42	6.79	4.96	3.14	1.63	0.61	0.10	82.5	82.3
0	0.00	0.19	0.78	1.88	3.45	5.29	7.08	8.61	9.60	9.89	9.45	8.35	6.77	4.94	3.13	1.62	0.61	0.09	81.7	81.6
-10	0.00	0.16	0.73	1.74	3.23	4.97	6.68	8.11	9.05	9.37	8.97	7.92	6.40	4.68	2.97	1.55	0.59	0.09	77.2	77.1
-20	0.00	0.13	0.63	1.54	2.83	4.36	5.89	7.20	8.07	8.40	8.07	7.15	5.81	4.24	2.71	1.42	0.54	0.07	69.0	68.9
-30	0.00	0.10	0.50	1.24	2.31	3.58	4.88	6.01	6.79	7.06	6.80	6.04	4.92	3.61	2.33	1.25	0.49	0.05	58.0	57.7
-40	0.00	0.06	0.35	0.92	1.71	2.68	3.68	4.57	5.20	5.48	5.31	4.75	3.91	2.91	1.91	1.05	0.42	0.03	44.9	44.6
-50	0.00	0.03	0.21	0.59	1.11	1.75	2.42	3.03	3.49	3.72	3.66	3.33	2.80	2.14	1.44	0.82	0.33	0.02	30.9	30.3
-60	0.00	0.01	0.08	0.27	0.55	0.89	1.25	1.58	1.85	2.03	2.06	1.95	1.72	1.38	0.98	0.59	0.23	0.01	17.4	16.1
-70	0.00	0.00	0.01	0.04	0.11	0.20	0.30	0.40	0.49	0.59	0.69	0.77	0.78	0.71	0.56	0.37	0.15	0.00	6.18	2.01
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.09	0.13	0.13	0.11	0.05	0.00	0.55	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
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.02	1.48	6.97	17.2	32.0	49.6	67.2	82.4	93.0	97.0	93.8	83.8	68.8	51.1	33.3	18.0	7.09	0.99	804	---
Φ a	0.00	0.21	5.63	16.2	31.0	48.7	66.5	81.8	92.3	96.3	93.1	83.2	68.3	50.6	32.9	17.6	6.57	0.63	---	791

one-half-peak spread: U:48.0,D:52.3 , L:51.7,R:51.1

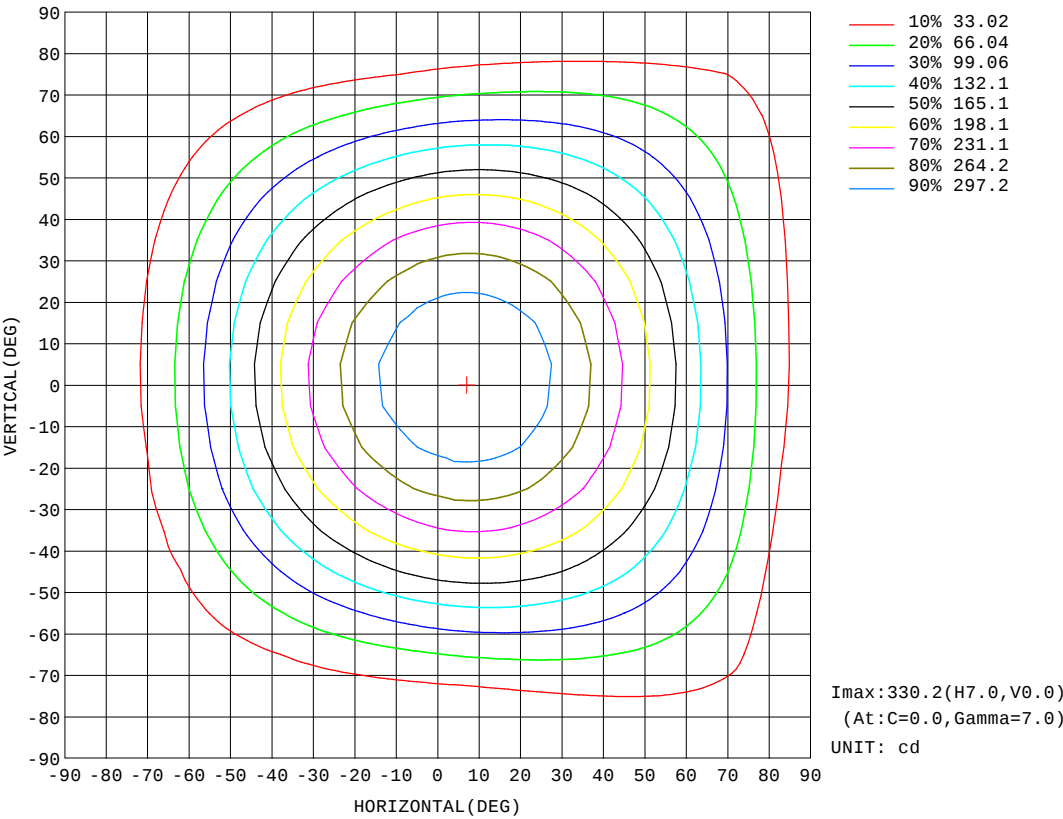
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm		
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024060065
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

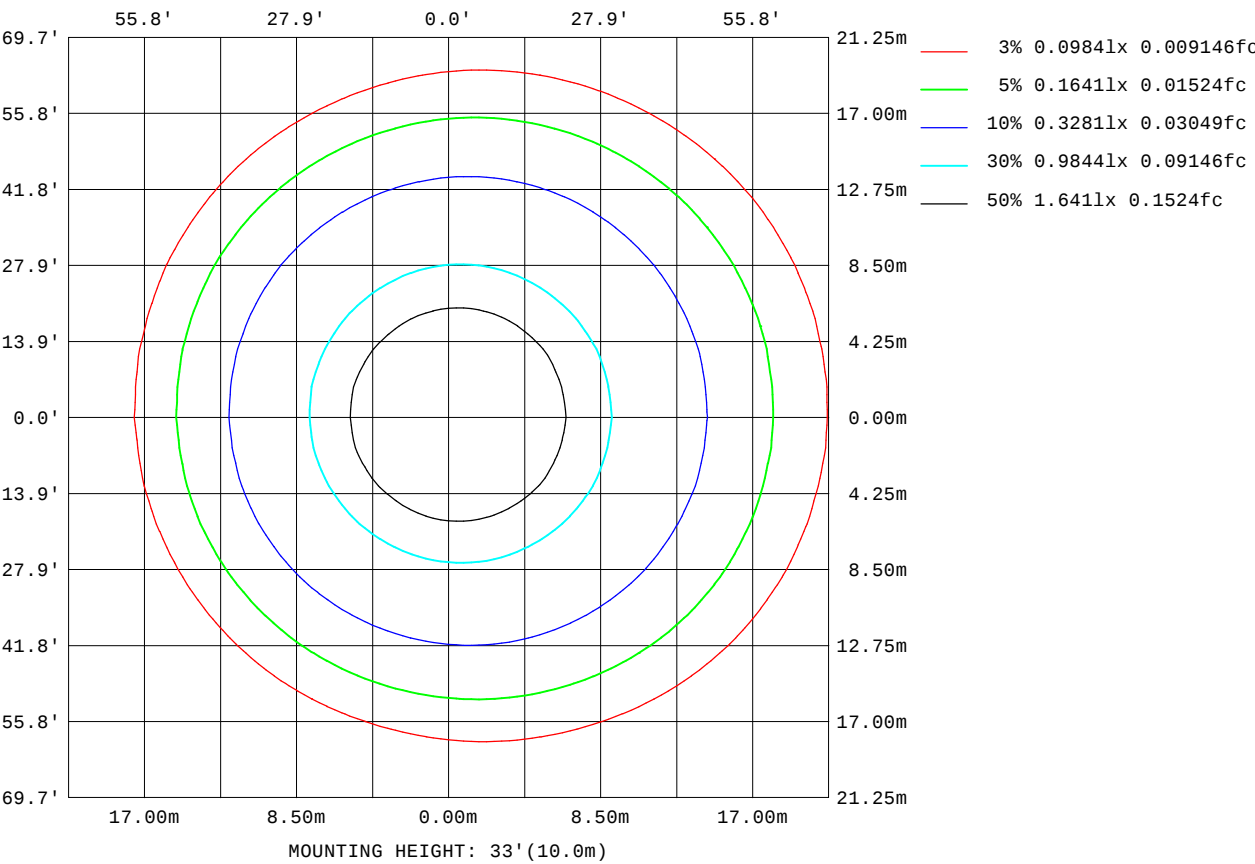


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm		
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024060065
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

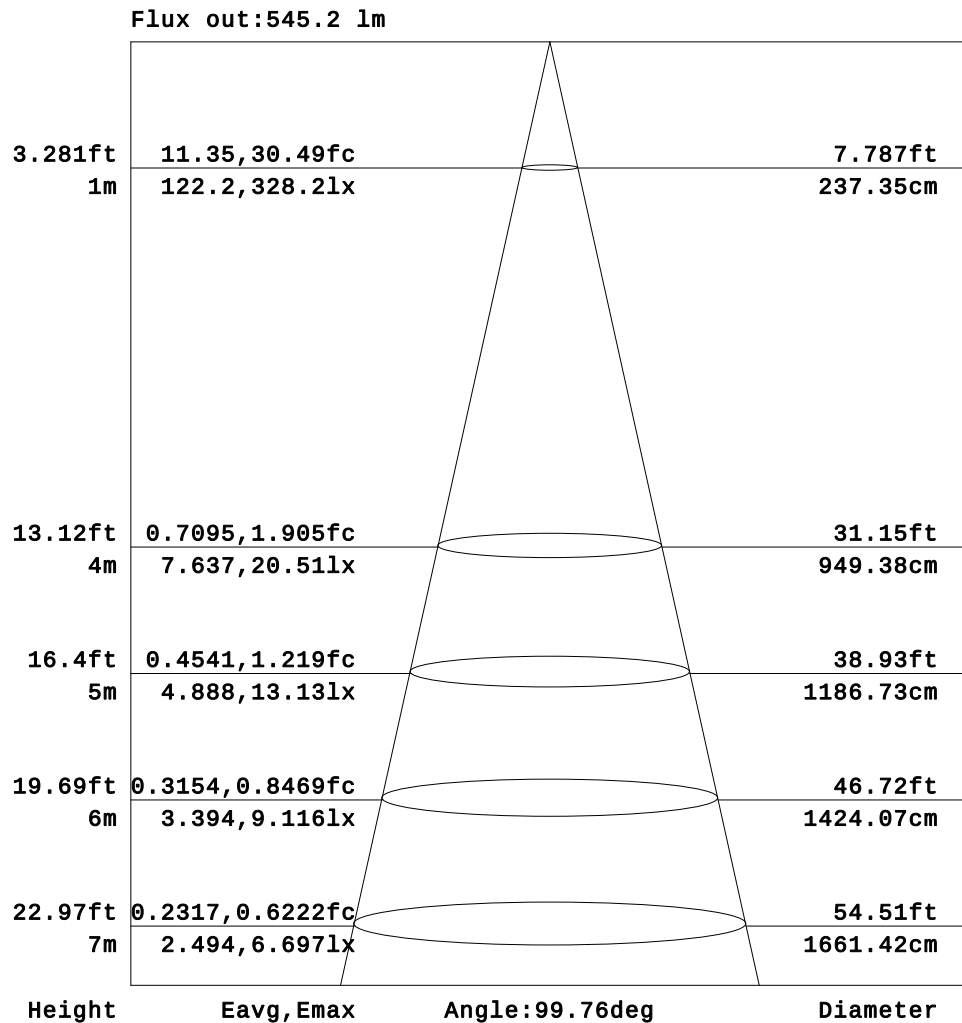


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm		
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024060065
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

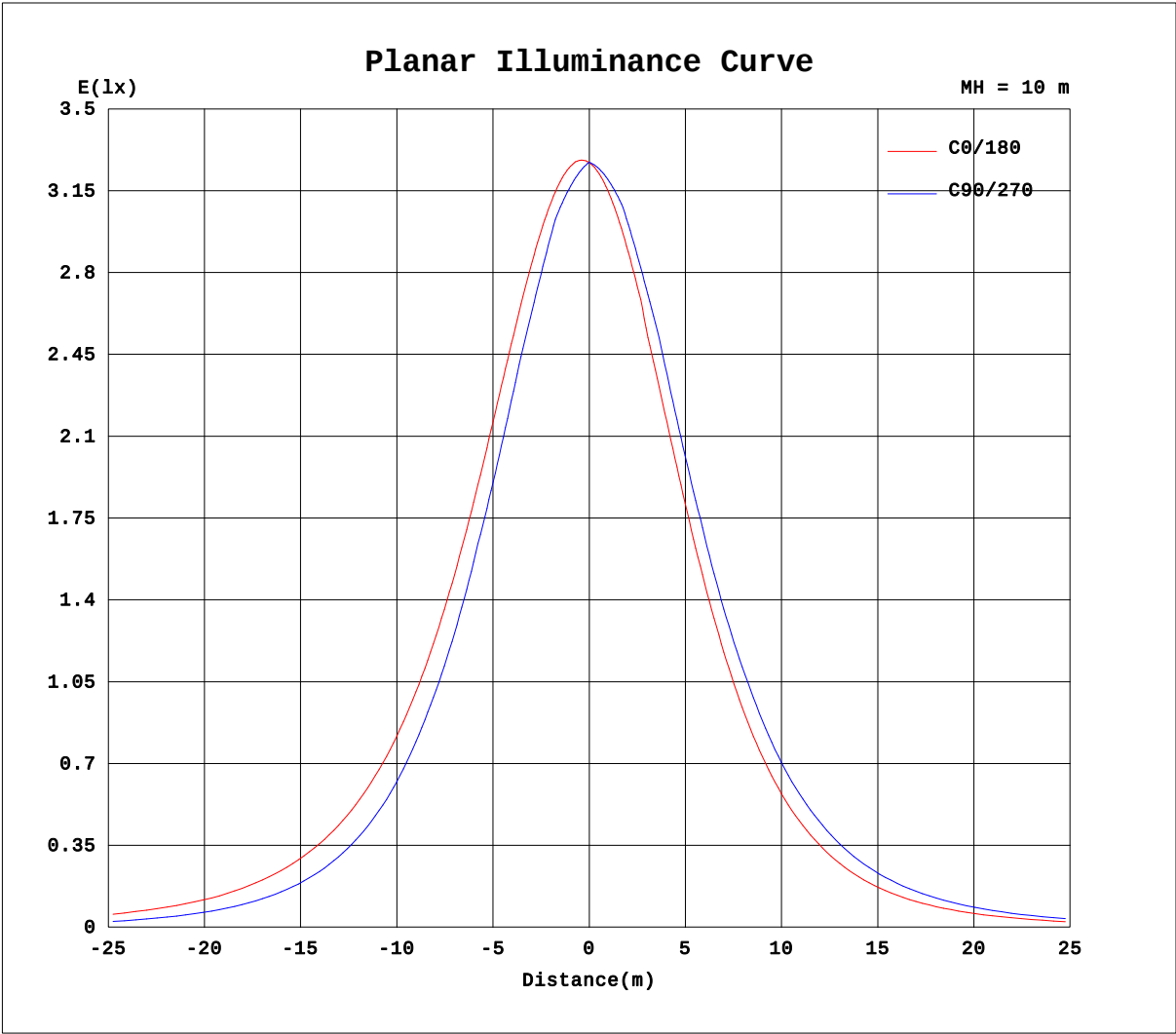


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
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:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm		
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024060065
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.00	0.00	0.00	0.00	0.72	1.93	3.56	5.10	6.57	8.31	9.76	11.2	12.7	14.2	15.5	16.8	18.1	19.4
-70	0.00	0.00	0.00	0.00	0.00	1.45	3.86	7.12	10.2	13.1	16.6	19.5	22.5	25.5	28.3	31.0	33.7	36.3	38.9
-65	0.00	0.00	0.00	0.00	2.63	6.23	10.2	15.7	20.8	25.6	30.9	35.9	40.9	45.6	50.1	54.3	58.2	61.8	65.0
-60	0.00	0.00	0.00	0.00	5.27	11.0	16.5	24.4	31.4	38.2	45.2	52.3	59.2	65.8	72.0	77.6	82.8	87.3	91.1
-55	0.00	0.00	0.00	1.79	8.60	15.9	23.6	33.4	42.4	51.5	60.9	70.3	79.4	88.0	95.9	103	110	115	120
-50	0.00	0.00	0.00	3.59	11.9	20.7	30.6	42.5	53.5	64.9	76.7	88.2	99.5	110	120	129	137	143	148
-45	0.00	0.00	0.00	6.60	15.7	26.5	38.7	51.8	65.1	79.0	93.0	107	120	133	144	155	164	171	176
-40	0.00	0.00	0.00	9.60	19.5	32.4	46.7	61.1	76.7	93.0	109	125	141	155	169	181	191	199	205
-35	0.00	0.00	0.16	11.7	22.9	37.4	53.6	70.0	87.8	106	124	142	160	176	191	203	214	223	229
-30	0.00	0.00	0.33	13.9	26.3	42.4	60.5	78.9	98.9	119	140	160	179	196	212	226	238	247	253
-25	0.00	0.00	1.49	15.1	28.6	47.3	66.2	86.2	108	130	152	173	194	213	229	244	256	265	272
-20	0.00	0.00	2.65	16.3	30.8	52.3	71.9	93.6	117	141	164	187	209	229	246	262	274	284	290
-15	0.00	0.00	4.01	15.7	34.2	54.7	75.4	98.2	123	148	173	197	220	240	259	274	287	297	304
-10	0.00	0.00	5.37	15.1	37.7	57.2	78.9	103	129	156	182	207	231	252	271	287	300	310	317
-5	0.00	0.00	3.78	18.7	38.9	58.7	80.9	105	132	159	185	211	234	256	275	293	305	315	322
0	0.00	0.00	2.19	22.4	40.1	60.2	82.8	108	135	162	189	214	238	260	279	298	311	321	327
5	0.00	0.00	4.83	22.0	39.5	59.5	81.9	107	133	161	188	213	237	258	277	295	308	318	325
10	0.00	0.00	7.47	21.6	39.0	58.7	80.9	105	132	160	187	212	236	257	276	293	306	316	322
15	0.00	0.00	7.11	20.8	37.8	56.8	78.2	102	128	154	180	204	227	248	267	282	295	307	313
20	0.00	0.00	6.76	20.1	36.5	54.9	75.6	98.3	123	148	173	196	218	239	257	272	285	298	304
25	0.00	0.00	5.86	18.4	33.8	51.1	70.5	91.7	115	138	162	184	205	225	242	257	269	280	287
30	0.00	0.00	4.97	16.7	31.0	47.3	65.3	85.1	107	129	151	172	192	211	227	242	254	263	269
35	0.00	0.00	3.87	14.8	27.8	42.8	59.3	77.2	96.7	117	137	156	175	192	208	221	233	242	248
40	0.00	0.00	2.77	12.9	24.7	38.3	53.2	69.4	86.8	105	123	141	158	174	188	201	212	220	226
45	0.00	0.00	1.38	10.5	20.9	32.7	45.9	60.0	75.1	91.1	107	123	138	152	164	176	186	194	199
50	0.00	0.00	0.00	8.00	17.1	27.1	38.6	50.6	63.5	76.9	90.9	104	117	130	141	151	160	167	172
55	0.00	0.00	0.00	5.57	13.3	21.8	31.4	41.6	52.2	63.2	74.7	86.1	96.9	107	117	125	133	139	144
60	0.00	0.00	0.00	3.14	9.57	16.4	24.2	32.5	40.8	49.5	58.5	67.7	76.5	84.8	92.5	99.6	106	111	116
65	0.00	0.00	0.00	1.57	5.69	11.1	17.0	23.5	30.0	36.6	43.4	50.3	57.0	63.5	69.6	75.1	80.2	84.7	88.5
70	0.00	0.00	0.00	0.00	1.81	5.67	9.85	14.6	19.2	23.7	28.3	32.8	37.5	42.3	46.6	50.7	54.4	58.0	61.2
75	0.00	0.00	0.00	0.00	0.90	2.83	4.92	7.28	9.83	12.7	15.6	18.4	21.2	24.2	26.9	29.7	32.4	35.0	37.7
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	1.72	2.87	3.94	4.96	6.00	7.22	8.77	10.3	12.0	14.1
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:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:121.4V I:0.0684A P:8.162W PF:0.9832 Lamp Flux:803.868x1 lm																	
NAME: LLS-COVE1-W40-8W-277V-016(3000K)-120V-24P										TYPE:LED				WEIGHT:			
DIM.:										SPEC.:				SERIAL No.:2024060065			
MFR.: TPK OPTOELECTRONIC TECH CO., LTD										SUR.:				PROTECTION ANGLE:			

Table--2																	
UNIT: cd																	
H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	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
-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
-80	0.00	1.76	4.41	7.18	10.0	12.8	15.3	17.4	19.2	20.5	21.2	21.4	21.2	20.4	13.4	3.81	0.00
-75	20.7	22.6	24.8	27.0	29.1	30.8	32.2	33.1	33.5	33.3	32.5	31.1	29.2	26.8	18.7	6.55	0.00
-70	41.3	43.4	45.3	46.9	48.1	48.9	49.1	48.7	47.7	46.1	43.8	40.8	37.2	33.2	23.9	9.29	0.00
-65	67.7	69.6	70.8	71.5	71.5	70.9	69.5	67.3	64.4	60.7	56.3	51.3	45.7	39.8	29.5	12.4	0.06
-60	94.1	95.7	96.4	96.2	95.0	92.9	89.8	85.9	81.0	75.3	68.8	61.8	54.3	46.4	35.1	15.5	0.11
-55	123	124	124	123	121	117	112	106	99.1	91.1	82.3	73.0	63.2	53.2	41.6	19.2	1.51
-50	152	153	153	150	147	141	134	126	117	107	95.8	84.2	72.2	60.1	48.1	22.9	2.91
-45	180	181	180	177	172	165	156	146	135	122	109	94.6	80.4	66.3	52.4	27.9	4.15
-40	208	209	207	203	197	188	178	166	152	137	121	105	88.6	72.4	56.8	32.8	5.38
-35	232	233	231	226	218	209	197	183	167	150	133	114	95.7	77.6	60.3	39.4	6.87
-30	256	257	254	248	240	229	215	200	182	164	144	123	103	82.7	63.7	46.1	8.35
-25	276	276	273	267	258	246	231	214	196	175	153	130	108	86.8	66.5	47.7	10.6
-20	296	296	292	285	275	263	247	229	209	187	163	138	114	90.9	69.3	49.3	12.9
-15	308	308	304	297	287	272	256	237	216	193	169	143	118	94.1	71.4	50.7	19.9
-10	320	320	316	308	298	281	265	245	224	200	174	148	122	97.2	73.6	52.1	26.9
-5	325	325	320	313	302	287	270	250	228	203	177	151	124	98.0	74.1	52.3	29.6
0	330	329	325	317	306	292	275	254	232	207	180	153	125	98.8	74.5	52.5	32.3
5	328	327	323	315	304	289	272	252	229	205	179	152	124	98.6	74.5	52.5	32.4
10	325	325	321	313	303	286	269	249	227	202	177	150	124	98.3	74.4	52.5	32.5
15	316	316	312	304	294	279	262	243	221	197	172	146	121	95.8	72.7	51.4	32.0
20	307	306	303	296	285	272	255	237	215	192	168	142	117	93.3	70.9	50.3	31.4
25	290	290	286	280	270	257	242	224	204	182	160	136	112	90.0	68.7	49.0	30.9
30	273	273	270	264	254	243	228	211	193	172	151	129	108	86.6	66.4	47.8	30.4
35	251	251	249	243	235	224	210	195	178	160	140	121	101	81.5	62.9	45.6	29.3
40	229	230	227	222	215	205	193	179	164	147	130	112	93.9	76.3	59.4	43.5	28.3
45	203	203	201	197	191	182	172	160	147	133	118	102	86.4	70.7	55.6	41.2	27.2
50	176	177	176	172	167	160	151	142	130	118	106	92.3	78.8	65.2	51.8	38.9	26.2
55	147	148	148	145	142	136	130	122	113	103	92.5	81.5	70.2	58.7	47.3	36.0	21.7
60	119	120	120	119	116	112	108	102	95.1	87.6	79.4	70.7	61.7	52.3	42.8	33.2	17.2
65	91.3	92.9	93.6	93.4	92.1	90.1	87.0	83.2	78.5	73.1	67.0	60.4	53.3	45.9	38.2	30.2	13.2
70	63.9	65.8	67.2	68.0	68.2	67.7	66.4	64.5	61.9	58.6	54.6	50.0	44.9	39.4	33.6	27.3	9.13
75	40.1	42.2	44.2	45.8	47.0	47.7	47.9	47.5	46.5	44.9	42.7	39.9	36.6	32.8	28.6	20.7	6.01
80	16.3	18.7	21.1	23.6	25.8	27.7	29.3	30.5	31.1	31.2	30.8	29.8	28.2	26.2	23.7	14.1	2.89
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
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

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-06-20

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: