

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

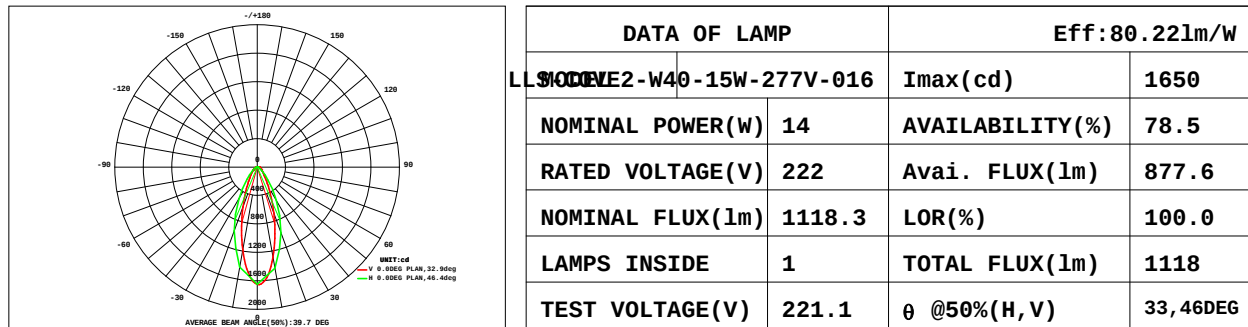
Maximum Intensity (Luminaire orientation as tested.)		1475.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	89.2V x 76.4H
	At 50% of Imax	46.5V x 33.0H
	At 90% of Imax	16.0V x 11.7H
Beam Flux	Total	998.5 lumens per klm.
	To 10% of Imax	782.2 lumens per klm.
	To 50% of Imax	367.7 lumens per klm.
	To 90% of Imax	50.9 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:2024-07-09

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:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm		
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277V-016	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240700018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



		AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
VERTICAL (DEG)	72	0.18	0.30	0.37	0.44	0.55	0.69	0.72	0.67	0.60	0.61	0.70	0.74	0.73	0.60	0.46	0.38	0.29	0.21	9.24	0.00		
	64	0.20	0.30	0.38	0.49	0.65	0.82	0.91	0.93	0.92	0.93	0.95	0.95	0.89	0.72	0.54	0.40	0.31	0.23	11.5	0.00		
	56	0.22	0.31	0.43	0.60	0.86	1.11	1.30	1.45	1.55	1.58	1.52	1.41	1.25	1.02	0.71	0.48	0.34	0.24	16.4	0.00		
	48	0.23	0.34	0.51	0.78	1.18	1.57	2.03	2.58	3.06	3.18	2.86	2.33	1.83	1.41	0.97	0.61	0.38	0.25	26.1	7.07		
	40	0.24	0.39	0.63	1.04	1.58	2.23	3.30	4.73	6.06	6.33	5.31	3.84	2.63	1.83	1.23	0.75	0.44	0.26	42.8	29.1		
	32	0.26	0.43	0.75	1.26	1.93	3.05	5.10	8.07	10.9	11.4	9.09	5.96	3.63	2.26	1.48	0.90	0.51	0.28	67.3	56.4		
	24	0.27	0.47	0.84	1.41	2.27	3.92	7.23	12.4	17.6	18.5	14.2	8.78	4.89	2.74	1.67	1.02	0.57	0.30	99.0	89.5		
		0.27	0.50	0.89	1.51	2.51	4.61	8.92	16.0	23.8	25.5	19.3	11.6	6.09	3.18	1.84	1.11	0.62	0.32	129	120		
		0.28	0.52	0.93	1.58	2.68	5.10	10.1	18.6	28.1	30.2	22.5	13.2	6.75	3.41	1.91	1.15	0.64	0.33	148	140		
		0.29	0.53	0.96	1.62	2.77	5.35	10.7	19.6	29.0	30.3	22.0	12.7	6.47	3.30	1.86	1.12	0.62	0.32	150	141		
		0.28	0.51	0.91	1.54	2.58	4.76	9.24	16.6	24.3	25.6	19.1	11.3	5.91	3.08	1.80	1.09	0.61	0.32	129	121		
	-24	0.26	0.47	0.84	1.40	2.23	3.78	6.94	11.9	17.0	18.1	14.0	8.73	4.87	2.73	1.67	1.02	0.58	0.31	96.8	87.2		
-32	0.24	0.42	0.74	1.23	1.90	2.95	4.93	7.88	10.8	11.4	9.17	6.05	3.67	2.27	1.49	0.91	0.52	0.29	66.9	56.1			
-40	0.23	0.38	0.63	1.04	1.58	2.24	3.29	4.70	5.94	6.12	5.13	3.70	2.55	1.80	1.26	0.77	0.45	0.26	42.0	28.3			
-48	0.21	0.34	0.53	0.83	1.23	1.61	2.04	2.50	2.82	2.83	2.55	2.13	1.72	1.37	0.97	0.60	0.38	0.24	24.9	2.89			
-56	0.18	0.31	0.42	0.60	0.86	1.10	1.21	1.28	1.32	1.34	1.34	1.30	1.20	1.01	0.71	0.48	0.33	0.22	15.2	0.00			
-64	0.15	0.29	0.38	0.50	0.65	0.83	0.91	0.93	0.93	0.93	0.95	0.96	0.90	0.75	0.56	0.41	0.31	0.20	11.5	0.00			
-72	0.13	0.26	0.36	0.45	0.56	0.70	0.74	0.68	0.59	0.58	0.66	0.73	0.73	0.62	0.47	0.37	0.29	0.17	9.08	0.00			
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)				16	24	32	40	48	56	64	72			
Φ t	4.12	7.08	11.5	18.3	28.5	46.4	79.6	131	185	195	151	96.3	56.7	34.1	21.6	13.6	8.18	4.75	1094	---			
Φ a	0.00	0.00	0.00	0.00	6.40	31.5	67.8	121	177	187	142	85.5	43.3	16.0	0.16	0.00	0.00	0.00	---	878			

one-half-peak spread: U:23.2,D:23.7 , L:16.7,R:16.6

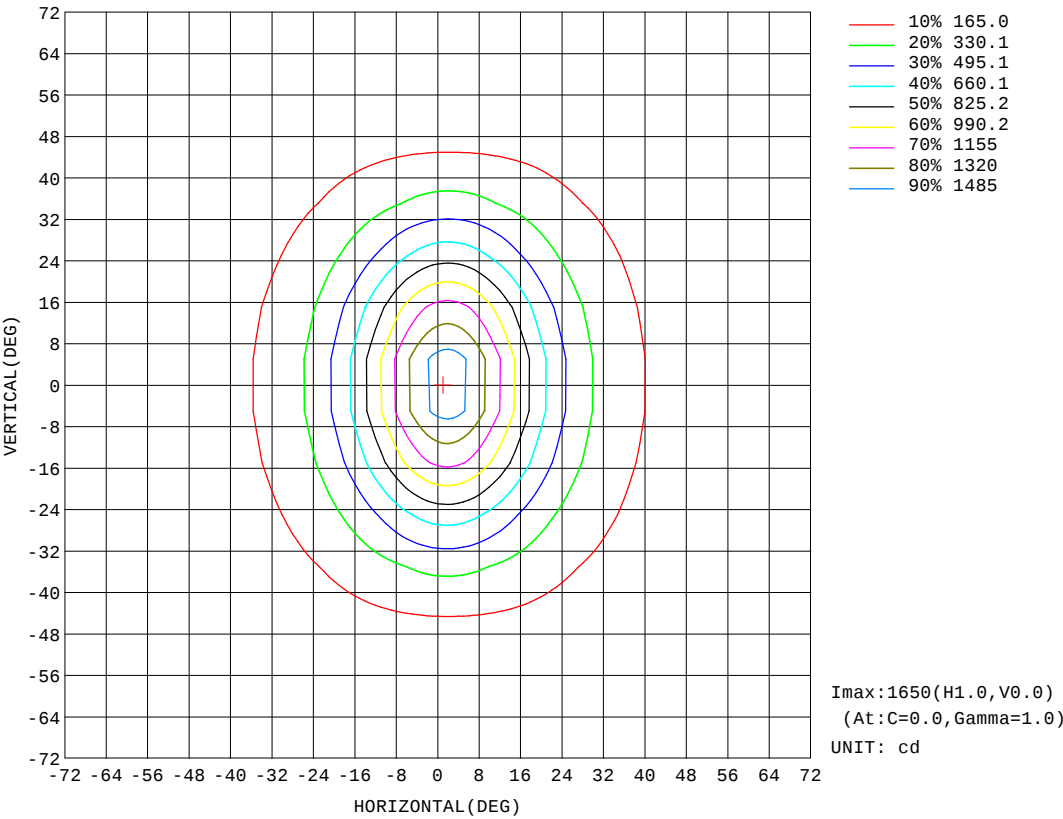
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-09

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

ISOCANDELA DIAGRAM

Test:U:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm		
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277VF005:LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

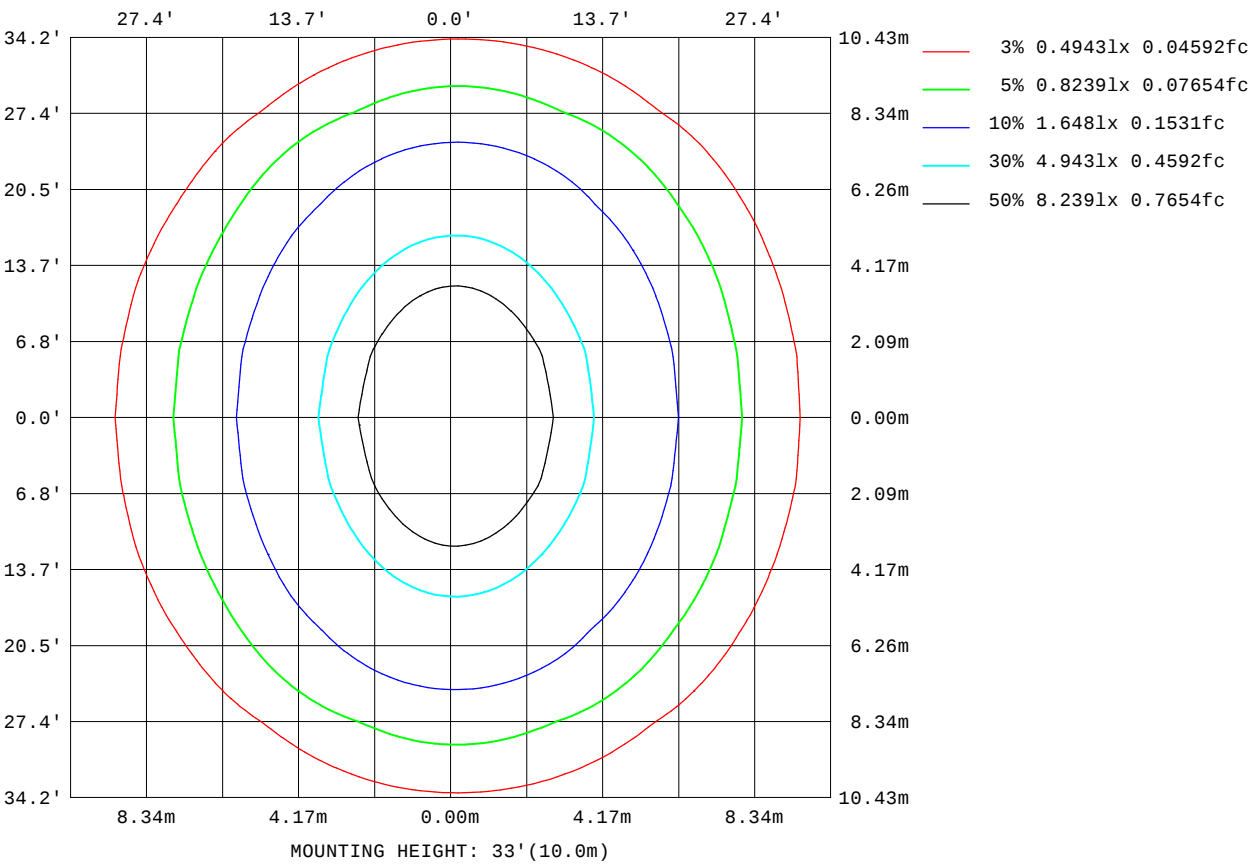


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-09

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:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm		
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277VF00B5-LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

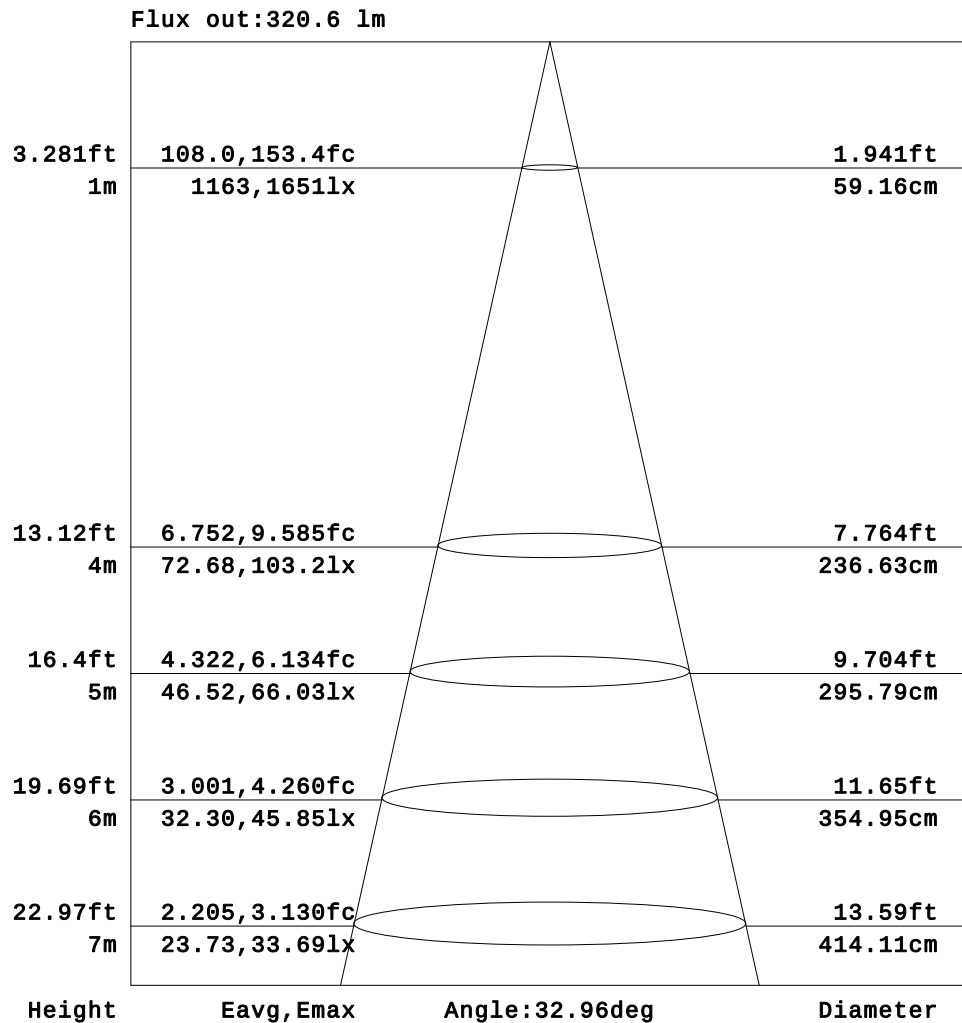


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-09

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:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm		
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277VTF0005:LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700018
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

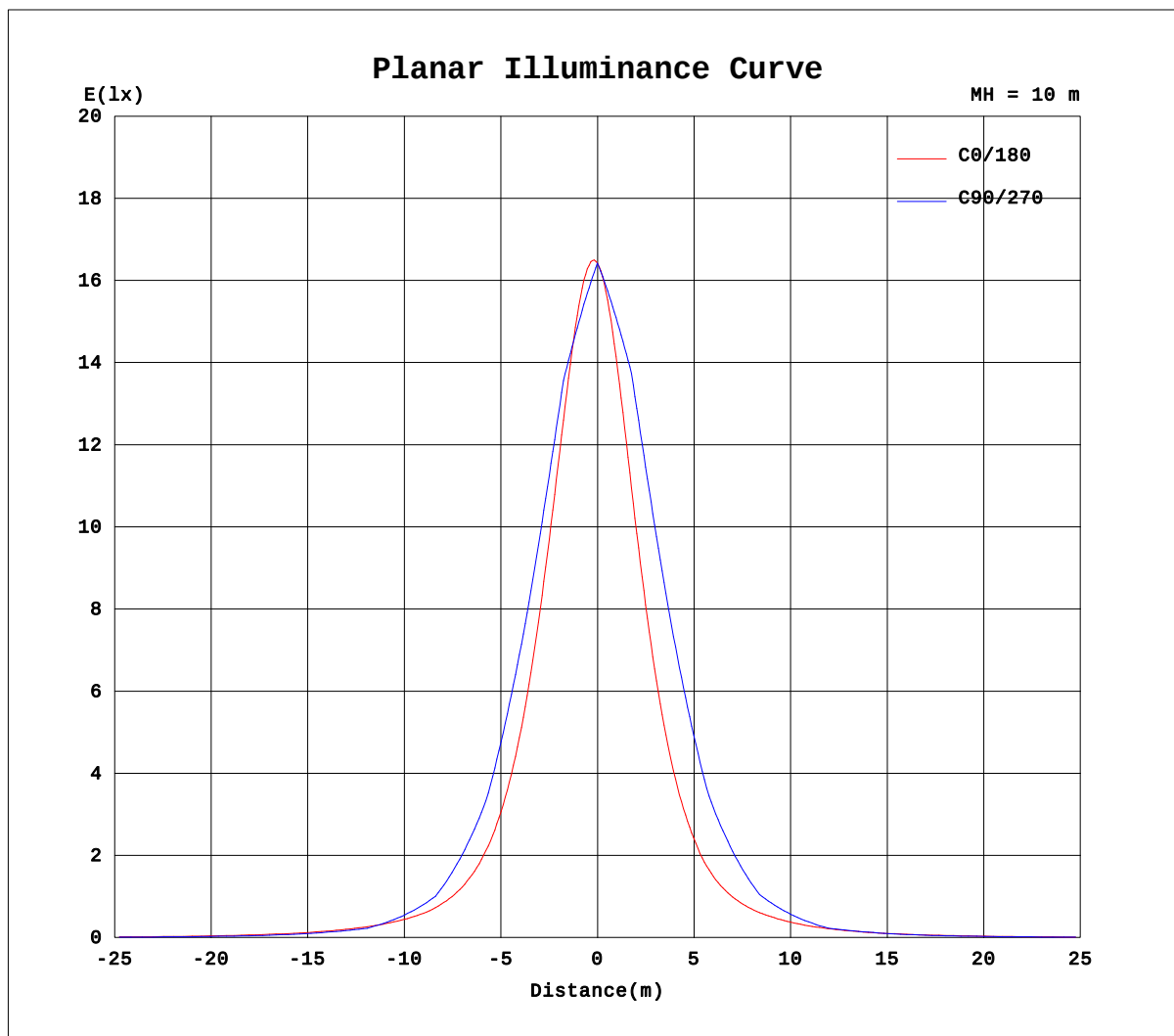


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-09

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: 2024-07-09

V(β) Range: -80 - 80DEG
V(β) 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:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm		
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277V F0R5:LED		WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240700018
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	7.83	17.5	23.2	24.6	25.7	27.6	29.5	31.4	31.5	29.7	28.1	20.7	10.0	5.64	4.08
-75	0.00	0.00	0.00	3.62	9.55	18.4	24.1	26.2	27.6	29.2	31.0	33.2	35.3	35.6	34.1	29.4	21.8	17.0	15.2
-70	0.00	0.00	0.32	8.97	14.6	21.2	27.6	28.9	30.1	31.7	32.9	36.3	39.5	41.2	38.6	35.1	31.3	27.3	26.2
-65	0.00	0.00	0.85	8.64	15.1	21.7	28.1	29.7	30.9	33.1	35.3	38.6	42.8	45.3	44.5	43.0	40.5	37.9	36.8
-60	0.00	0.00	3.05	11.2	18.5	24.9	30.2	31.3	32.4	35.5	38.5	42.7	47.7	49.6	49.8	50.0	48.5	47.8	47.5
-55	0.00	0.00	2.71	11.2	18.4	26.0	31.1	32.6	34.9	39.1	44.3	50.9	57.6	61.1	63.1	65.2	66.2	67.5	68.2
-50	0.00	0.00	5.28	14.2	21.4	30.1	32.6	34.5	38.9	44.6	52.4	62.1	69.4	73.5	77.3	80.9	84.4	87.5	89.0
-45	0.00	0.00	5.18	14.1	23.3	30.9	34.0	37.9	44.0	52.3	63.1	75.2	85.3	95.0	107	122	136	150	157
-40	0.00	0.00	8.39	17.9	29.2	33.4	36.2	43.6	52.0	63.9	78.6	92.9	105	121	143	168	194	216	226
-35	0.00	0.00	7.93	19.1	29.1	33.7	38.3	46.3	56.9	70.5	87.0	104	123	150	189	237	291	340	368
-30	0.00	0.44	12.1	24.9	32.6	35.4	43.4	53.1	66.7	83.3	102	122	149	193	252	326	409	480	514
-25	0.00	0.28	11.5	25.9	32.1	36.1	44.0	54.8	69.1	86.6	107	131	165	221	304	411	538	660	730
-20	0.00	2.33	16.7	29.9	34.0	40.1	49.2	61.6	77.9	97.8	121	151	200	278	394	545	720	878	955
-15	0.00	1.71	17.6	29.3	33.9	39.3	48.8	61.3	77.6	97.7	122	155	208	295	428	608	829	1048	1181
-10	0.00	8.56	24.0	30.7	36.1	42.3	52.7	67.1	84.4	107	134	177	246	358	526	755	1030	1290	1424
-5	0.00	5.12	20.5	30.4	35.4	41.2	51.3	65.2	82.1	104	131	171	237	349	517	751	1043	1339	1523
0	0.00	17.9	24.7	32.5	36.7	43.5	54.5	69.6	87.4	111	141	187	265	397	590	857	1181	1489	1647
5	0.00	5.72	22.2	31.6	35.4	41.1	51.2	65.3	82.2	104	131	171	239	351	520	756	1049	1347	1532
10	0.00	12.8	27.1	32.2	36.0	42.2	52.8	67.3	84.7	107	135	178	249	363	533	764	1042	1306	1443
15	0.00	3.84	24.7	31.2	34.6	39.8	48.8	61.6	77.9	97.9	123	156	211	300	435	618	842	1065	1202
20	0.00	12.4	26.8	31.6	35.0	40.2	49.1	61.9	78.2	98.0	121	152	203	283	403	557	736	898	981
25	0.00	2.25	22.4	30.2	33.5	37.6	44.5	54.7	69.1	86.5	107	131	167	225	310	420	550	676	751
30	0.00	5.14	24.6	30.7	33.4	37.1	43.3	52.6	66.3	82.9	102	121	149	195	256	333	418	494	533
35	0.00	0.43	19.2	28.7	32.1	34.9	39.1	46.1	56.6	70.5	86.6	103	122	151	191	241	298	350	382
40	0.00	2.36	21.3	28.9	31.8	34.1	37.3	43.1	51.9	64.3	78.3	92.1	105	122	145	172	200	224	236
45	0.00	0.00	14.3	26.9	30.5	32.4	34.5	38.1	43.9	52.4	63.1	74.8	84.9	95.4	109	124	140	154	163
50	0.00	0.02	14.8	26.8	30.1	31.4	32.8	34.8	38.9	44.5	52.6	61.9	68.9	73.6	78.1	82.2	86.0	89.1	90.9
55	0.00	0.00	8.24	22.6	28.5	30.3	31.4	32.7	35.0	38.6	44.0	50.7	57.0	60.6	63.2	65.5	66.7	68.1	68.9
60	0.00	0.00	9.40	20.6	27.6	29.7	30.5	31.2	32.1	34.6	37.9	42.2	46.9	48.7	49.4	49.4	48.1	47.5	47.3
65	0.00	0.00	3.00	15.2	20.4	27.1	29.0	30.2	30.9	32.2	34.2	37.5	41.5	43.7	43.3	41.9	39.4	37.2	36.4
70	0.00	0.00	0.00	12.8	19.1	26.5	27.8	29.4	30.0	30.7	31.5	34.3	37.5	38.9	36.7	33.5	29.6	26.5	25.8
75	0.00	0.00	0.00	5.62	6.76	13.9	21.9	19.9	26.7	29.4	29.8	31.3	33.2	33.5	31.5	26.6	19.7	15.5	14.0
80	0.00	0.00	0.00	0.00	0.00	6.24	14.3	14.2	25.1	28.3	28.4	29.3	29.2	27.7	24.6	16.9	7.59	3.63	2.53
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:2024-07-09

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:221.1V I:0.0679A P:13.94W PF:0.9282 Lamp Flux:1118.3x1 lm																	
NAME: 8.02.003.0425 20x40° LLS-COVE2-W40-15W-277V F0R5:LED															WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:20240700018		
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:						PROTECTION ANGLE:		

Table--2

UNIT: cd

H(°) \ 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	5.85	9.96	19.7	30.4	30.8	31.0	30.9	29.1	26.5	24.8	24.4	24.1	18.7	13.6	9.72	7.73	7.80	11.1
-75	16.1	19.3	26.4	33.9	35.6	36.3	35.1	32.0	29.3	27.7	26.7	27.4	23.7	16.7	11.9	8.94	8.50	9.07
-70	27.4	30.8	36.4	38.8	40.7	41.5	38.4	33.7	31.3	30.0	29.2	29.0	26.1	17.3	13.3	9.24	8.99	7.09
-65	37.5	39.2	43.1	45.3	46.2	47.0	44.1	38.9	35.3	32.9	30.7	30.5	29.0	22.3	15.1	11.1	9.37	8.40
-60	48.1	49.0	50.9	52.3	52.2	51.8	47.9	42.2	38.2	35.0	31.9	31.6	29.9	24.8	15.1	11.9	9.43	6.70
-55	68.6	68.4	68.0	67.5	65.9	64.1	60.6	54.0	46.3	40.5	36.0	33.7	31.5	28.2	19.8	13.2	10.3	7.10
-50	89.1	87.7	85.1	82.3	78.9	75.4	71.1	62.6	51.7	44.0	38.9	34.8	32.4	28.9	21.9	12.8	10.7	4.98
-45	156	148	135	121	108	97.2	88.2	78.8	65.8	53.8	45.2	39.1	34.8	31.8	25.6	15.8	10.1	5.56
-40	221	204	180	155	133	115	102	90.3	74.6	59.8	48.8	41.5	35.7	32.5	26.1	13.3	9.12	1.85
-35	364	329	279	226	182	147	123	105	88.8	71.4	57.4	46.9	39.6	34.8	30.5	20.7	7.65	3.61
-30	496	435	357	278	215	168	136	114	95.8	76.8	61.2	48.9	40.9	35.9	32.7	21.2	5.78	0.63
-25	717	629	508	386	286	213	162	129	107	87.2	69.4	55.2	44.8	37.6	34.0	27.4	8.90	1.12
-20	913	777	608	451	324	234	173	135	111	89.9	71.6	56.5	45.4	37.6	34.0	28.8	6.14	0.00
-15	1159	997	780	572	404	282	201	151	121	98.3	78.4	62.0	48.9	39.6	35.0	31.5	18.4	0.00
-10	1357	1134	865	619	427	290	205	153	122	98.2	78.2	61.5	48.5	39.0	34.6	31.0	20.0	0.00
-5	1492	1268	975	701	482	327	226	165	129	104	82.9	65.5	51.1	40.7	35.4	32.0	25.6	0.77
0	1560	1288	970	685	466	315	218	159	125	100	80.3	63.0	49.2	39.3	34.7	31.2	25.3	0.00
5	1501	1276	982	706	485	329	228	166	129	104	83.1	65.5	51.0	40.6	35.4	32.0	26.1	4.25
10	1376	1150	876	627	432	294	207	154	122	98.3	78.4	61.5	48.3	38.9	34.6	31.1	25.3	1.02
15	1181	1017	796	583	411	286	204	153	122	98.3	78.5	61.7	48.6	39.3	34.9	31.7	25.9	8.86
20	939	799	625	462	331	238	177	137	111	89.9	71.2	55.9	45.0	37.3	33.8	30.5	25.0	5.07
25	740	650	525	399	295	218	166	131	108	87.4	69.5	54.9	44.6	37.3	34.0	31.1	25.5	11.6
30	516	454	373	290	223	174	139	116	96.3	77.2	61.4	49.0	40.7	35.7	33.0	29.9	25.0	8.28
35	379	343	291	236	189	152	126	107	88.9	71.5	57.4	46.8	39.6	35.3	32.9	30.1	25.2	12.5
40	231	213	188	161	138	119	104	90.4	74.2	59.7	48.6	41.3	36.1	33.9	32.0	28.6	25.1	9.23
45	162	154	141	126	112	100	89.6	78.5	65.2	53.5	44.9	38.9	35.2	33.3	31.7	28.8	25.1	12.6
50	91.0	89.7	87.3	84.4	81.0	77.1	71.2	61.5	51.1	43.5	38.5	34.9	33.4	32.1	30.6	27.1	24.4	9.69
55	69.5	69.5	69.3	68.7	67.1	64.7	60.0	52.8	45.4	39.9	36.0	33.7	32.5	31.6	30.2	27.1	24.8	12.5
60	48.1	49.3	51.3	52.4	52.4	51.0	46.2	40.9	37.1	34.4	32.4	31.9	31.2	30.7	28.8	25.6	21.7	10.0
65	37.4	39.6	43.2	45.2	46.3	46.0	42.6	37.8	34.8	33.1	31.5	30.8	30.2	29.5	27.9	26.0	21.7	12.1
70	27.3	31.5	36.3	38.5	40.6	40.1	37.0	33.1	31.6	31.0	30.2	29.4	28.9	28.0	26.3	25.7	17.4	10.2
75	15.7	19.8	27.6	33.3	35.0	35.2	33.6	31.0	29.4	29.1	28.5	27.8	27.4	26.9	25.5	21.3	16.4	11.6
80	5.15	10.9	22.2	28.9	29.8	29.9	29.4	27.8	27.0	26.9	26.7	26.0	25.7	25.6	23.0	15.9	13.4	10.6
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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-07-09

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