

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

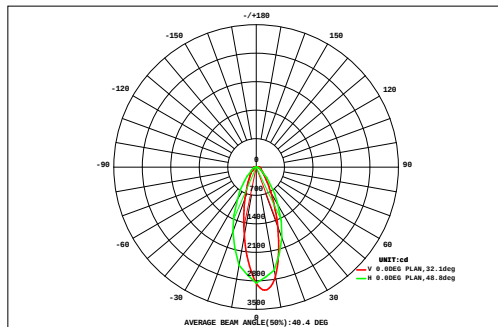
Maximum Intensity (Luminaire orientation as tested.)		1395.2 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	93.3V x 76.6H
	At 50% of Imax	48.2V x 32.1H
	At 90% of Imax	17.3V x 11.3H
Beam Flux	Total	997.8 lumens per klm.
	To 10% of Imax	766.3 lumens per klm.
	To 50% of Imax	350.9 lumens per klm.
	To 90% of Imax	51.9 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:220.9V I:0.1331A P:28.34W PF:0.9639 Lamp Flux:2174.59x1 lm		
NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277V-016	TYPE: LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240700019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:76.74lm/W	
LLS-COVE2-W40-30W-277V-016		Imax(cd)	3034
NOMINAL POWER(W)	28	AVAILABILITY(%)	76.6
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1665
NOMINAL FLUX(lm)	2174.59	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2175
TEST VOLTAGE(V)	220.9	θ @50%(H,V)	32,48DEG

		AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
VERTICAL (DEG)	72	0.50	0.73	0.96	1.19	1.44	1.78	1.90	1.82	1.69	1.72	1.93	1.98	1.93	1.68	1.29	0.98	0.74	0.51	24.8	0.00		
	64	0.49	0.72	0.96	1.24	1.58	1.99	2.23	2.36	2.39	2.44	2.48	2.50	2.34	1.99	1.45	1.05	0.75	0.52	29.4	0.00		
	56	0.49	0.73	1.00	1.37	1.93	2.58	3.05	3.45	3.77	3.93	3.85	3.55	3.09	2.56	1.87	1.24	0.82	0.54	39.8	0.00		
	48	0.50	0.75	1.10	1.63	2.46	3.38	4.36	5.59	6.80	7.33	6.76	5.52	4.26	3.26	2.37	1.51	0.93	0.57	59.1	22.4		
	40	0.51	0.80	1.26	1.99	3.09	4.33	6.25	9.15	12.3	13.7	12.0	8.77	5.95	4.06	2.86	1.82	1.06	0.61	90.5	66.2		
	32	0.53	0.86	1.42	2.31	3.57	5.35	8.69	14.1	20.5	23.5	19.9	13.4	8.15	4.94	3.22	2.08	1.20	0.65	134	114		
	24	0.54	0.92	1.55	2.51	3.94	6.44	11.6	20.4	31.5	37.0	30.5	19.3	10.7	5.92	3.57	2.26	1.30	0.68	190	173		
		0.55	0.94	1.61	2.63	4.20	7.18	13.6	25.2	40.7	49.3	40.6	24.9	13.2	6.87	3.87	2.38	1.39	0.72	240	223		
		0.54	0.95	1.64	2.67	4.32	7.62	14.9	28.2	46.4	57.0	46.9	28.4	14.8	7.44	4.05	2.46	1.44	0.74	270	255		
		0.54	0.95	1.63	2.64	4.29	7.61	14.9	28.1	46.3	57.0	46.8	28.4	14.8	7.44	4.06	2.46	1.44	0.74	270	254		
		0.52	0.91	1.56	2.56	4.09	6.95	13.1	24.1	39.0	47.7	40.0	25.0	13.4	6.97	3.89	2.38	1.41	0.73	234	218		
	-24	0.50	0.84	1.46	2.37	3.71	6.00	10.6	18.4	28.4	34.0	28.9	18.8	10.7	5.98	3.58	2.27	1.32	0.70	179	161		
-32	0.43	0.79	1.29	2.10	3.28	4.95	7.98	12.9	18.8	22.0	19.2	13.3	8.17	4.97	3.20	2.08	1.22	0.64	127	107			
-40	0.35	0.69	1.12	1.79	2.78	3.93	5.66	8.19	11.0	12.4	11.3	8.55	5.90	4.01	2.80	1.84	1.09	0.55	84.0	59.9			
-48	0.29	0.57	0.97	1.45	2.20	3.03	3.88	4.91	5.87	6.33	6.02	5.12	4.07	3.17	2.37	1.55	0.92	0.46	53.2	12.4			
-56	0.26	0.48	0.83	1.18	1.67	2.28	2.63	2.82	2.90	2.94	2.98	2.95	2.77	2.43	1.86	1.25	0.75	0.44	33.4	0.00			
-64	0.26	0.45	0.75	1.07	1.42	1.79	2.02	2.13	2.14	2.15	2.19	2.22	2.10	1.84	1.43	1.04	0.64	0.43	26.1	0.00			
-72	0.26	0.43	0.70	1.03	1.26	1.55	1.70	1.56	1.49	1.47	1.60	1.74	1.72	1.51	1.19	0.90	0.60	0.43	21.2	0.00			
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72			
Φ t	8.07	13.5	21.8	33.7	51.2	78.7	129	213	322	382	324	214	128	77.0	48.9	31.6	19.0	10.7	2107	---			
Φ a	0.00	0.00	0.00	0.00	3.38	45.2	104	193	303	363	304	194	104	46.7	5.72	0.00	0.00	0.00	---	1665			

one-half-peak spread: U:23.5,D:25.1 , L:15.9,R:16.5

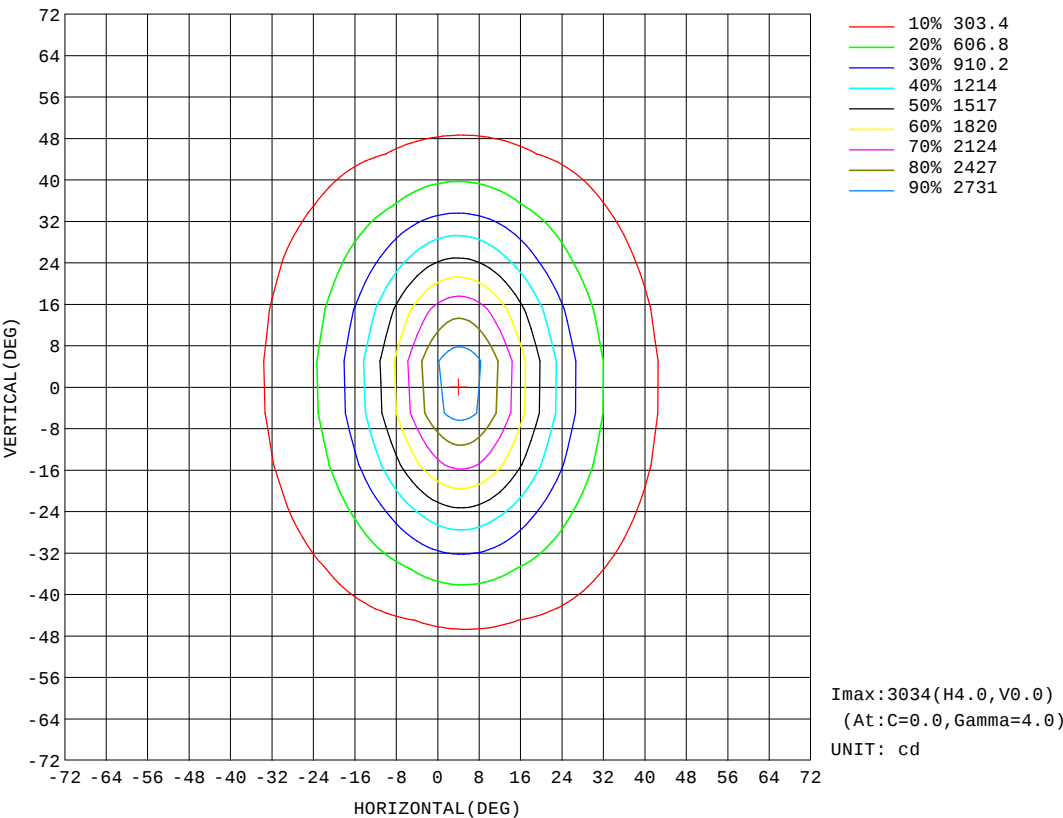
NEMA Beam Type: Type 5

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:220.9V I:0.1331A P:28.34W PF:0.9639 Lamp Flux:2174.59x1 lm		
NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277VF005:LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

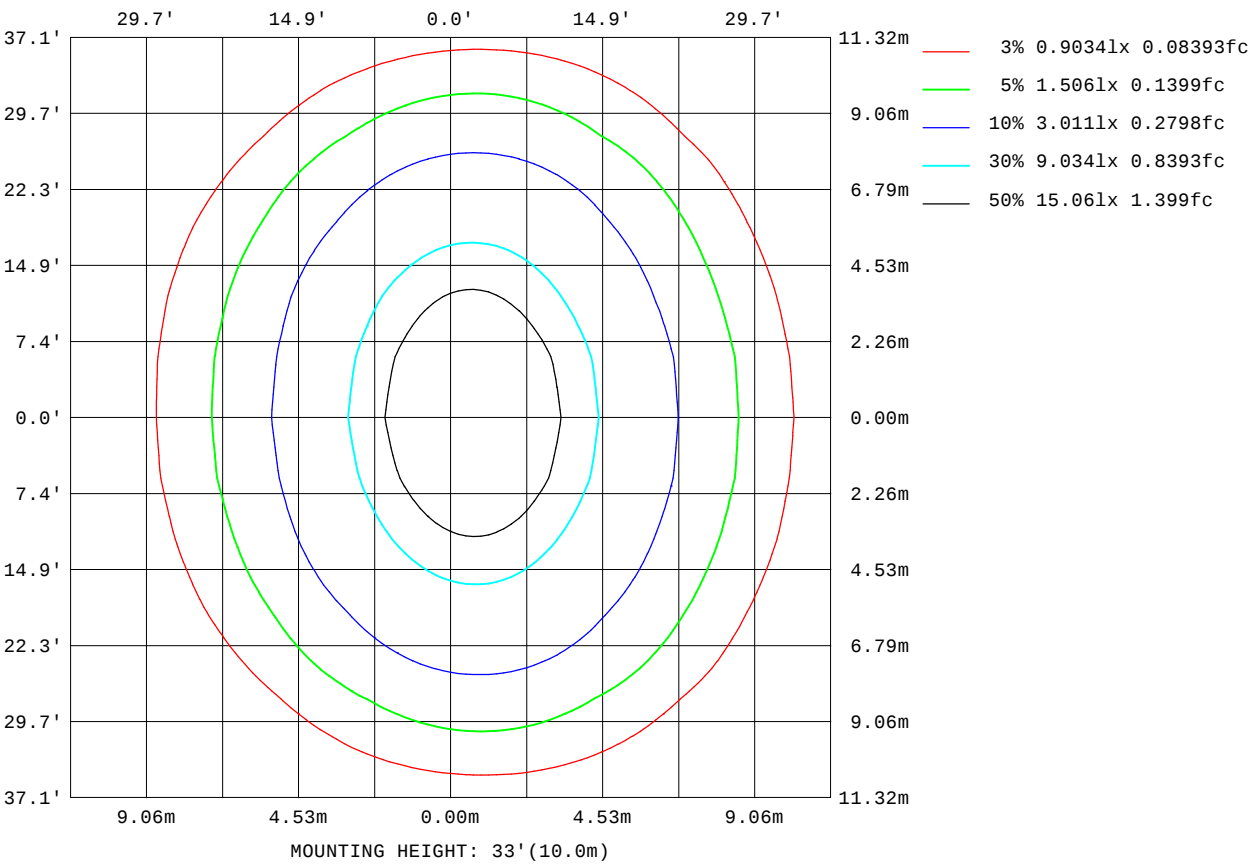


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.9V I:0.1331A P:28.34W PF:0.9639 Lamp Flux:2174.59x1 lm		
NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277V F005:LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

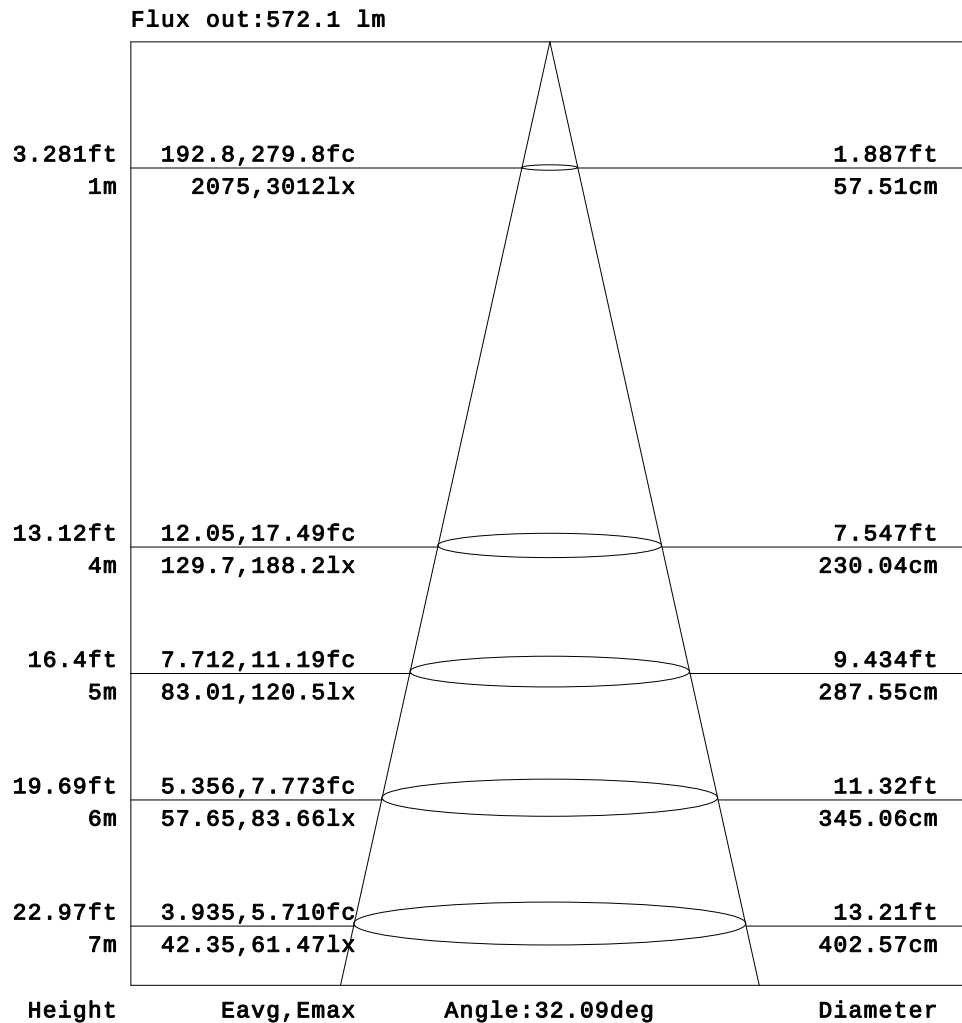


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-09

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:220.9V I:0.1331A P:28.34W PF:0.9639 Lamp Flux:2174.59x1 lm		
NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277V F005:LED	WEIGHT:	
DIM.:	SPEC.:	SERIAL No.:20240700019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

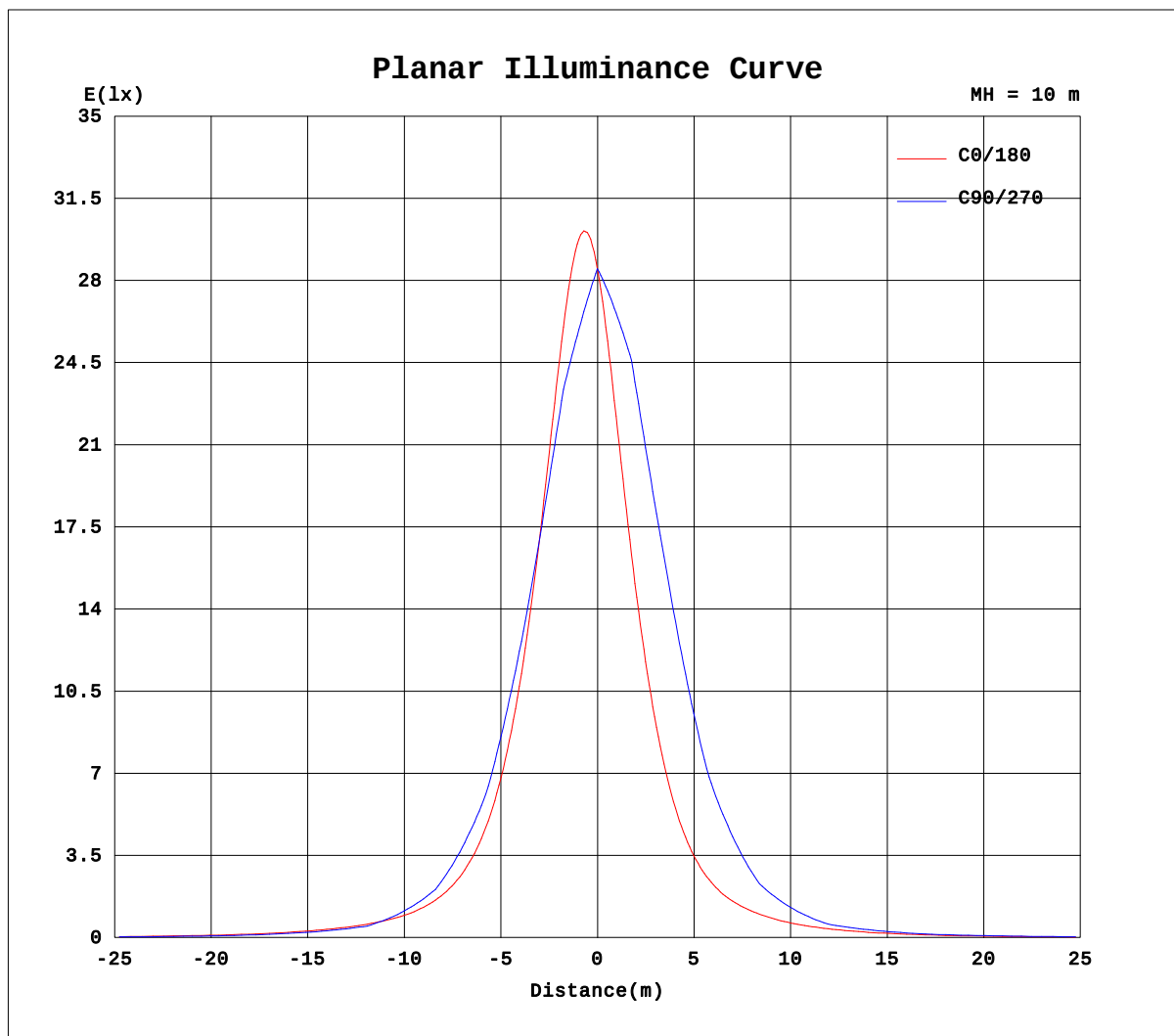


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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



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Test Speed: HIGH
Temperature:28.0DEG
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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:220.9V I:0.1331A P:28.34W PF:0.9639 Lamp Flux:2174.59x1 lm																	
NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277V F0R5:LED															WEIGHT:		
DIM.:									SPEC.:						SERIAL No.:20240700019		
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:						PROTECTION ANGLE:		

Table--1		UNIT: cd																	
H(DEG)\ V(DEG)	-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	19.8	21.5	23.5	30.1	34.0	33.9	39.5	49.0	60.3	67.7	71.6	73.6	75.1	73.2	66.3	53.8	37.6	19.2	23.9
-75	19.4	24.2	29.7	33.4	35.6	34.9	41.2	50.1	61.4	70.5	73.6	76.2	80.0	82.5	79.0	67.9	55.4	45.3	46.3
-70	19.0	26.9	35.9	36.6	37.2	35.9	42.8	51.3	62.6	73.4	75.6	78.8	85.0	91.9	91.6	82.0	73.1	71.4	68.7
-65	19.5	29.8	36.0	37.6	36.2	37.1	44.2	53.0	64.7	74.5	79.3	85.3	92.6	100	101	97.0	92.3	90.8	89.1
-60	19.9	32.7	36.2	38.6	35.2	38.4	45.5	54.8	66.9	75.6	83.0	91.9	100	108	110	112	111	110	110
-55	19.9	32.9	36.8	34.5	34.7	40.0	48.1	59.4	71.7	80.4	90.5	104	119	130	135	141	144	147	150
-50	19.9	33.0	37.4	30.3	34.2	41.7	50.7	63.9	76.5	85.2	98.0	116	137	151	160	169	177	185	191
-45	19.7	30.8	34.3	29.7	35.9	45.4	57.3	71.7	84.0	97.1	116	140	164	184	208	237	269	300	325
-40	19.4	28.7	31.3	29.0	37.5	49.2	64.0	79.5	91.6	109	134	163	191	218	257	304	362	416	460
-35	19.5	26.3	29.3	32.1	42.0	57.4	71.1	84.8	102	124	153	185	220	262	326	409	510	616	702
-30	19.6	23.9	27.3	35.2	46.5	65.6	78.2	90.1	112	138	171	208	249	307	395	514	659	815	943
-25	17.2	22.4	29.4	41.8	56.6	69.6	81.7	98.1	121	150	185	226	277	360	484	654	871	1110	1311
-20	14.8	21.0	31.4	48.4	66.6	73.6	85.1	106	131	161	198	244	306	412	572	795	1082	1406	1679
-15	9.85	23.8	43.8	55.2	66.4	76.0	89.2	111	136	168	208	258	331	456	649	924	1286	1703	2063
-10	4.87	26.6	56.3	62.0	66.1	78.4	93.3	115	142	175	218	272	357	500	727	1054	1489	1999	2446
-5	6.02	37.0	56.9	63.5	68.2	79.3	95.1	117	145	178	221	278	370	524	769	1124	1600	2157	2649
0	7.17	47.5	57.5	64.9	70.3	80.3	96.8	120	148	180	224	284	382	548	811	1194	1710	2316	2851
5	12.9	51.2	58.9	65.0	70.5	80.1	96.2	119	147	180	224	282	375	533	784	1150	1640	2213	2714
10	18.6	55.0	60.2	65.1	70.6	80.0	95.6	118	146	180	223	279	367	518	757	1106	1570	2110	2577
15	19.1	55.3	60.6	65.4	70.7	79.7	94.2	115	142	175	217	269	348	481	690	990	1385	1835	2213
20	19.6	55.6	60.9	65.7	70.7	79.3	92.8	113	139	171	210	258	329	445	623	875	1200	1560	1849
25	19.2	54.6	61.2	65.2	70.0	77.6	89.4	107	131	161	199	242	300	391	530	724	970	1239	1452
30	18.7	53.5	61.4	64.7	69.3	75.9	86.0	102	123	151	187	226	270	337	437	573	740	919	1056
35	19.0	50.5	61.6	64.0	68.6	74.1	82.7	95.7	114	138	170	206	241	290	362	458	573	693	784
40	19.3	47.6	61.7	63.3	67.8	72.3	79.3	89.5	104	125	152	185	213	242	286	343	405	468	513
45	19.1	47.4	62.2	62.8	67.1	71.2	76.9	84.6	95.5	111	132	159	184	205	233	267	304	340	367
50	18.9	47.3	62.8	62.3	66.4	70.0	74.5	79.7	87.1	97.7	112	133	155	168	180	192	202	213	222
55	18.8	42.9	61.0	63.0	65.7	69.8	74.2	78.9	84.3	92.0	103	117	134	144	151	158	163	168	172
60	18.6	38.5	59.3	63.7	65.0	69.6	73.9	78.0	81.6	86.3	93.8	101	112	120	121	124	123	123	123
65	18.9	35.0	54.2	62.6	65.7	69.5	74.1	78.4	81.2	85.2	90.1	96.1	106	111	111	108	104	101	99.7
70	19.2	31.5	49.0	61.5	66.5	69.3	74.4	78.8	80.8	84.1	86.3	90.9	99.2	103	99.7	92.1	85.7	78.1	76.2
75	19.6	30.1	41.8	51.1	60.7	67.5	74.2	78.1	80.3	82.6	85.1	89.1	95.3	95.0	90.6	78.6	63.6	55.8	53.8
80	20.0	28.8	34.6	40.7	55.0	65.6	74.1	77.5	79.7	81.1	84.0	87.4	91.5	86.6	81.4	65.2	41.5	33.6	31.3
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

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H(β) Interval: 1.0DEG
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Operators:QC1
Test Date:2024-07-09

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V(B) Interval: 5.0DEG
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Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

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NAME: 8.02.003.0426 20x40° LLS-COVE2-W40-30W-277V F0R5:LED		WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240700019
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	27.7	37.0	54.9	77.1	81.3	79.8	78.0	75.6	73.4	69.6	61.3	56.0	53.7	47.9	47.4	46.7	47.6	48.3
-75	49.2	56.4	70.2	84.3	88.3	88.4	86.0	81.5	76.9	73.0	64.1	58.7	56.7	52.9	49.9	48.8	47.5	47.5
-70	70.8	75.8	85.5	91.5	95.3	97.0	93.9	87.4	80.4	76.4	67.0	61.5	59.7	57.8	52.4	51.0	47.5	46.8
-65	90.8	94.8	101	107	109	110	106	98.5	90.3	83.8	72.7	62.4	59.9	58.2	54.3	51.3	48.7	46.7
-60	111	114	117	122	123	122	119	110	100	91.2	78.3	63.3	60.1	58.5	56.2	51.5	49.9	46.6
-55	153	155	155	155	153	149	143	133	119	104	89.1	71.7	62.3	58.7	56.7	52.7	50.1	47.0
-50	195	196	194	189	183	176	168	157	137	116	99.9	80.0	64.5	58.8	57.3	53.8	50.3	47.3
-45	335	328	307	278	249	222	200	181	159	134	113	91.5	71.4	59.5	56.4	53.5	48.8	46.3
-40	476	461	420	367	314	268	233	205	180	151	125	103	78.2	60.2	55.5	53.1	47.3	45.3
-35	733	697	610	507	410	331	270	228	197	166	137	112	88.2	67.1	54.2	50.4	46.3	43.3
-30	990	932	801	647	506	393	308	251	213	181	150	122	98.2	74.1	52.9	47.6	45.4	41.3
-25	1381	1281	1071	835	626	466	352	277	228	192	158	128	103	80.6	61.2	47.8	41.1	36.4
-20	1772	1631	1341	1024	747	538	395	302	243	203	167	134	107	87.2	69.5	48.0	36.7	31.5
-15	2189	2001	1619	1211	865	608	434	324	253	208	172	140	110	89.1	72.2	57.8	41.7	20.7
-10	2605	2372	1897	1399	983	677	473	345	263	214	177	145	114	91.1	74.9	67.7	46.7	9.91
-5	2818	2549	2020	1477	1029	702	486	351	268	217	180	145	115	91.4	74.9	67.6	54.5	29.2
0	3030	2725	2144	1555	1075	727	498	358	272	220	182	146	115	91.6	74.9	67.5	62.2	48.5
5	2880	2595	2050	1492	1036	704	486	351	268	218	180	145	114	91.1	74.7	67.4	62.1	51.8
10	2730	2465	1956	1430	997	682	474	345	264	215	178	144	113	90.6	74.4	67.3	61.9	55.0
15	2325	2099	1676	1237	874	609	433	322	253	209	172	138	109	88.1	73.5	66.9	61.7	55.1
20	1921	1732	1396	1044	751	536	392	300	242	202	165	132	105	85.6	72.6	66.5	61.4	55.2
25	1505	1368	1119	855	632	465	350	276	229	192	156	126	101	83.2	72.0	66.4	61.4	55.4
30	1089	1003	842	666	513	395	309	253	215	181	147	119	96.7	80.9	71.5	66.4	61.3	55.5
35	807	750	643	524	418	335	273	231	199	166	135	110	91.7	78.2	70.6	65.9	60.9	55.7
40	524	497	444	382	323	274	237	209	183	150	123	101	86.8	75.5	69.6	65.4	60.5	55.9
45	375	362	332	297	262	231	206	185	160	132	111	93.8	82.2	73.7	68.7	64.8	60.0	55.7
50	226	226	220	211	200	188	175	160	138	115	98.1	86.6	77.6	71.8	67.7	64.2	59.4	55.5
55	176	177	176	174	168	162	152	138	119	102	90.4	81.5	75.0	70.4	66.7	63.2	58.6	55.2
60	126	129	133	137	136	136	129	115	100	90.0	82.7	76.4	72.5	69.0	65.7	62.1	57.8	55.0
65	103	108	117	121	122	123	117	106	94.6	86.3	80.8	76.0	72.4	68.5	65.0	61.5	57.7	55.1
70	80.3	87.9	102	104	108	111	105	97.0	89.0	82.6	78.9	75.5	72.2	68.0	64.3	60.9	57.7	55.1
75	58.4	66.9	84.6	103	106	104	98.8	92.9	87.1	82.5	78.5	74.9	71.1	66.9	63.2	59.9	57.4	54.8
80	36.4	45.9	67.2	101	105	97.5	92.8	88.7	85.2	82.4	78.0	74.3	70.1	65.8	62.2	58.9	57.0	54.4
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:2024-07-09

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: