

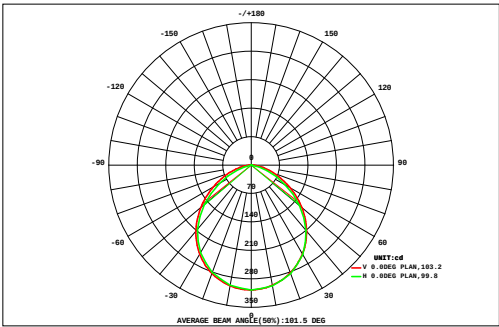
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		408.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	144.1V x 155.2H
	At 50% of Imax	99.8V x 103.2H
	At 90% of Imax	44.4V x 44.9H
Beam Flux	Total	998.5 lumens per klm.
	To 10% of Imax	978.2 lumens per klm.
	To 50% of Imax	706.4 lumens per klm.
	To 90% of Imax	178.8 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.8 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
NAME: 8.02.003.0451 LLS-COVE1-W40-8W-277V-016	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120096
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:100.16lm/W	
MODEL	LLS-COVE1-W40-8W-277V-016	Imax(cd)	307.0
NOMINAL POWER(W)	7	AVAILABILITY(%)	98.2
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	737.1
NOMINAL FLUX(lm)	750.946	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	750.9
TEST VOLTAGE(V)	220	θ @50%(H,V)	103,100DEG

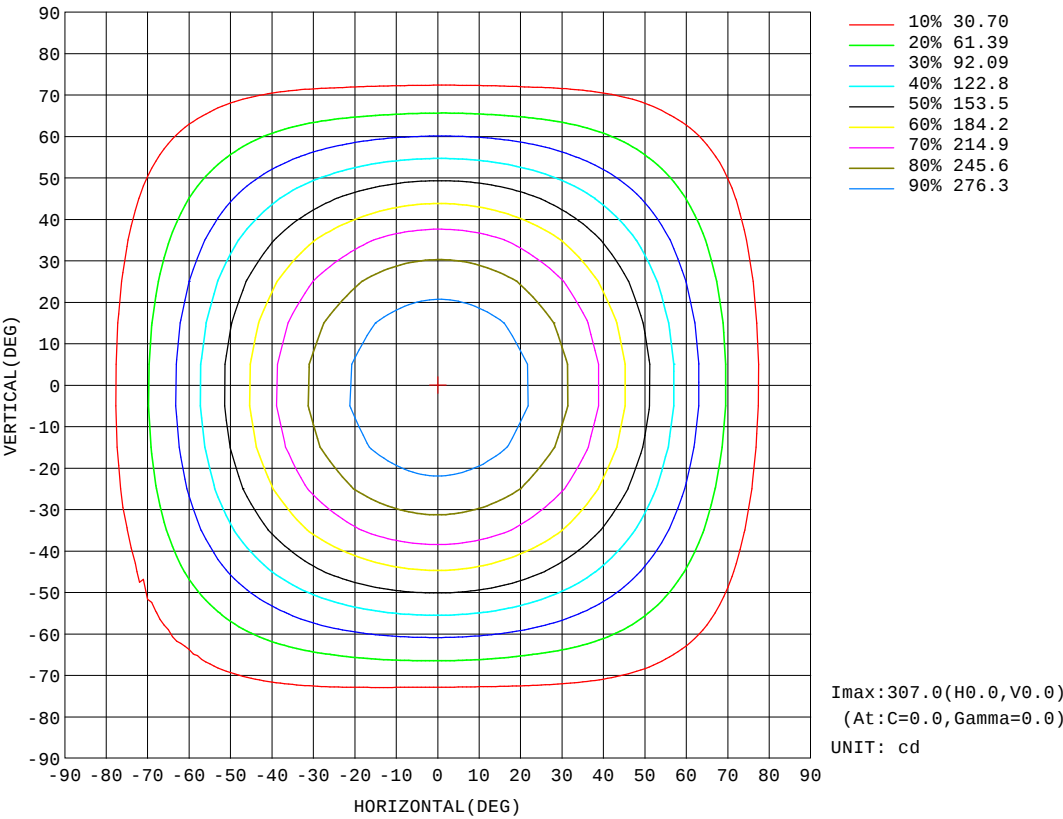
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.05	0.13	0.23	0.32	0.37	0.37	0.40	0.42	0.42	0.40	0.39	0.38	0.32	0.23	0.13	0.05	0.00	4.59	1.01
70	0.01	0.10	0.29	0.56	0.89	1.24	1.54	1.75	1.86	1.87	1.76	1.55	1.24	0.89	0.56	0.28	0.10	0.01	16.5	15.2
60	0.02	0.15	0.46	0.93	1.55	2.22	2.85	3.34	3.61	3.62	3.35	2.86	2.22	1.55	0.93	0.45	0.15	0.02	30.3	29.7
50	0.02	0.20	0.63	1.33	2.25	3.26	4.20	4.95	5.36	5.37	4.97	4.22	3.25	2.24	1.32	0.62	0.20	0.02	44.4	44.1
40	0.03	0.25	0.80	1.71	2.91	4.21	5.43	6.37	6.89	6.90	6.39	5.44	4.21	2.89	1.70	0.79	0.25	0.03	57.2	56.9
30	0.03	0.29	0.93	2.02	3.44	4.97	6.36	7.43	8.02	8.04	7.48	6.41	4.98	3.43	2.01	0.93	0.29	0.03	67.1	66.9
20	0.04	0.32	1.04	2.25	3.82	5.50	7.01	8.15	8.79	8.80	8.20	7.06	5.51	3.81	2.24	1.03	0.31	0.03	73.9	73.8
10	0.04	0.33	1.09	2.37	4.02	5.77	7.33	8.52	9.17	9.19	8.58	7.39	5.80	4.02	2.36	1.09	0.33	0.04	77.4	77.3
0	0.04	0.34	1.10	2.39	4.04	5.80	7.37	8.55	9.20	9.22	8.59	7.40	5.80	4.02	2.36	1.08	0.33	0.04	77.7	77.5
-10	0.03	0.33	1.05	2.28	3.87	5.56	7.08	8.24	8.86	8.87	8.25	7.09	5.53	3.82	2.23	1.03	0.31	0.03	74.5	74.3
-20	0.02	0.30	0.96	2.08	3.52	5.08	6.49	7.56	8.14	8.14	7.55	6.44	4.99	3.42	1.99	0.91	0.28	0.03	67.9	67.7
-30	0.02	0.26	0.83	1.77	3.01	4.35	5.58	6.52	7.03	7.02	6.49	5.51	4.24	2.88	1.68	0.78	0.24	0.02	58.2	58.0
-40	0.01	0.21	0.66	1.40	2.36	3.42	4.39	5.14	5.54	5.53	5.09	4.30	3.29	2.24	1.31	0.61	0.19	0.01	45.7	45.4
-50	0.00	0.15	0.48	1.00	1.65	2.37	3.03	3.53	3.81	3.80	3.50	2.95	2.28	1.57	0.93	0.45	0.14	0.00	31.6	31.2
-60	0.00	0.09	0.30	0.61	0.97	1.35	1.69	1.93	2.06	2.05	1.90	1.64	1.30	0.93	0.57	0.29	0.08	0.00	17.8	16.7
-70	0.00	0.04	0.15	0.28	0.41	0.51	0.57	0.58	0.58	0.57	0.55	0.52	0.46	0.36	0.24	0.13	0.03	0.00	5.97	1.39
-80	0.00	0.01	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.01	0.00	0.00	0.19	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	0.32	3.41	10.9	23.2	39.0	56.0	71.3	83.0	89.3	89.4	83.1	71.2	55.5	38.4	22.7	10.6	3.27	0.32	751	---
Φ a	0.00	2.12	9.93	22.3	38.2	55.2	70.6	82.3	88.8	88.8	82.5	70.5	54.8	37.6	21.8	9.61	1.94	0.00	---	737

one-half-peak spread: U:50.6,D:49.7 , L:52.0,R:51.8 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:2024-12-27
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:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
NAME: 8.02.003.0451 LLS-COVE1-W40-8W-277V-016	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120096
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

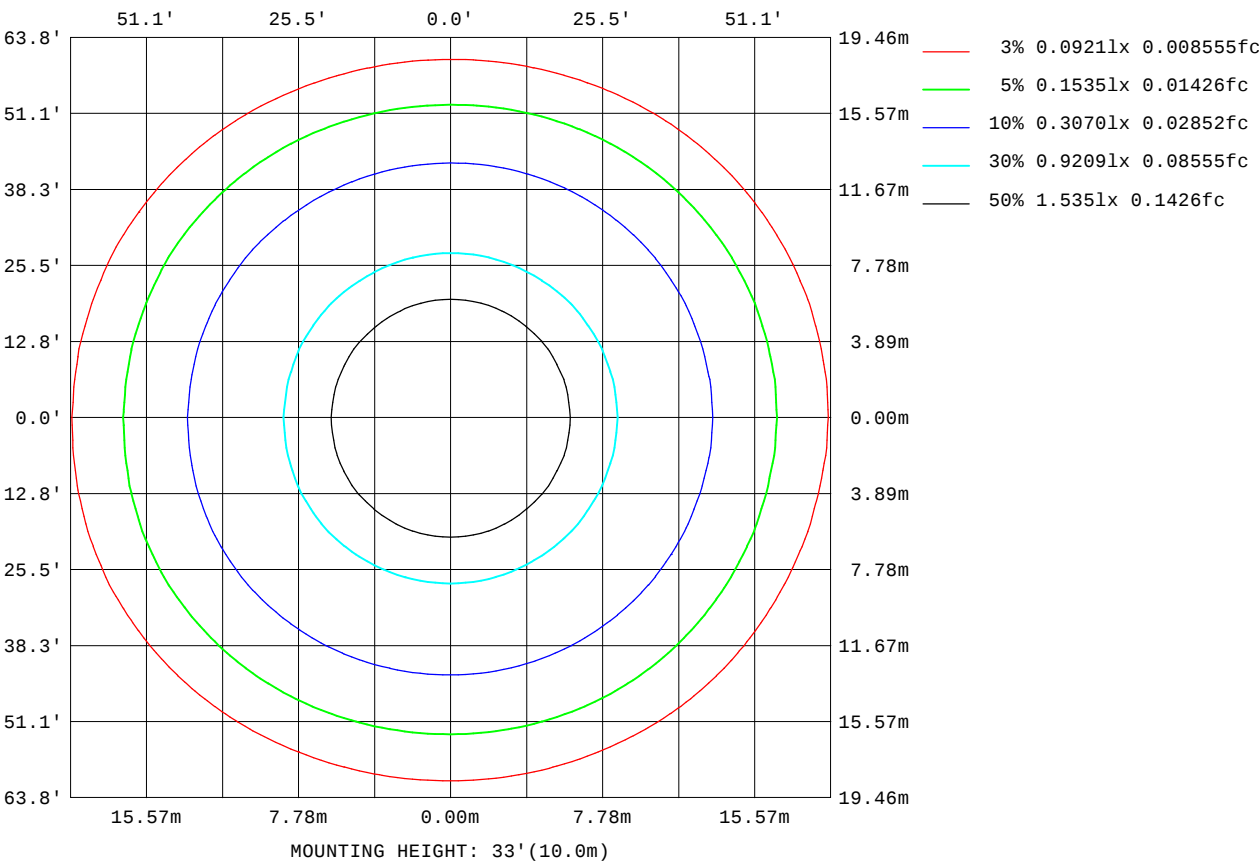


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-27

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

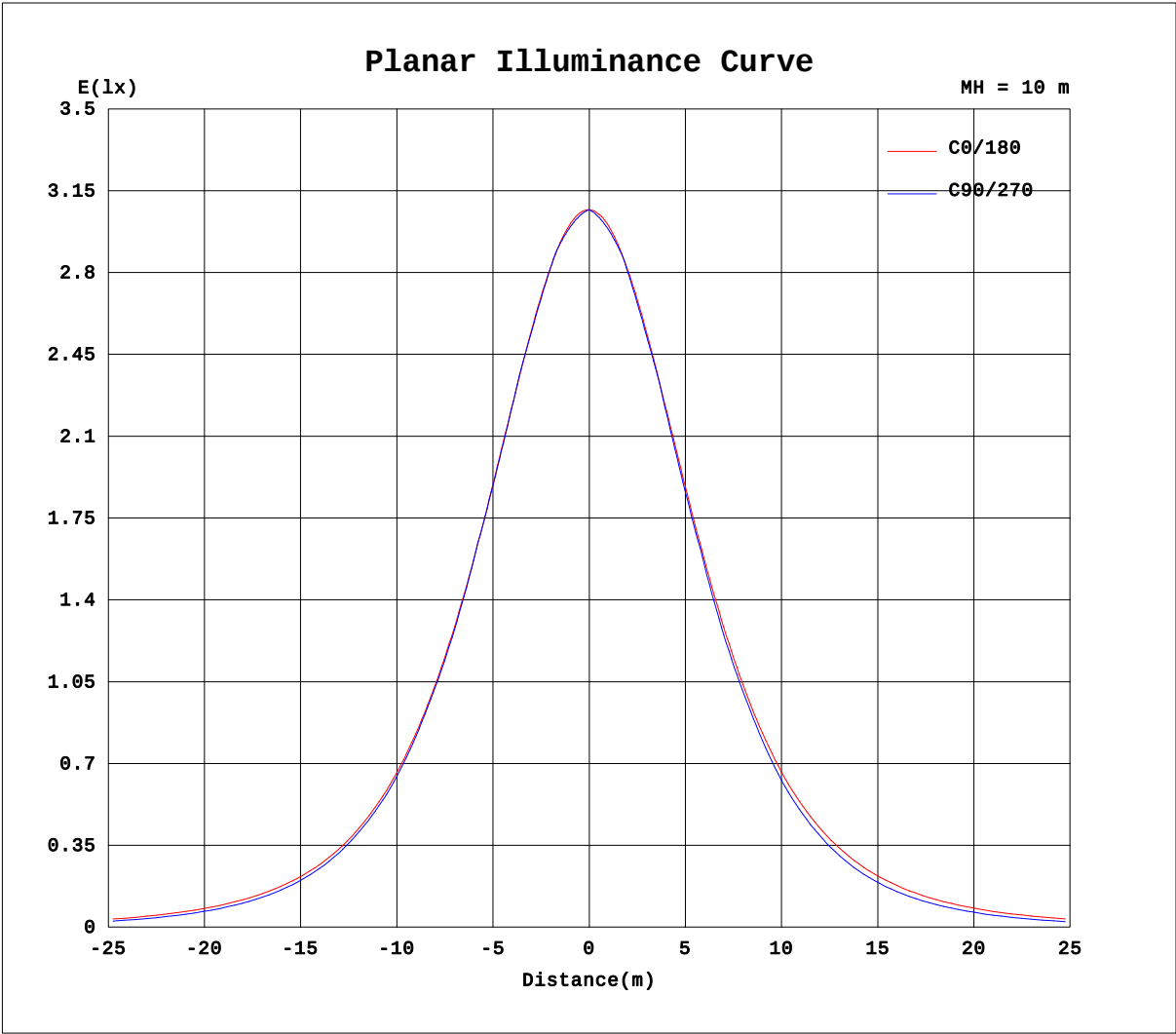
Test:U:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-27

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

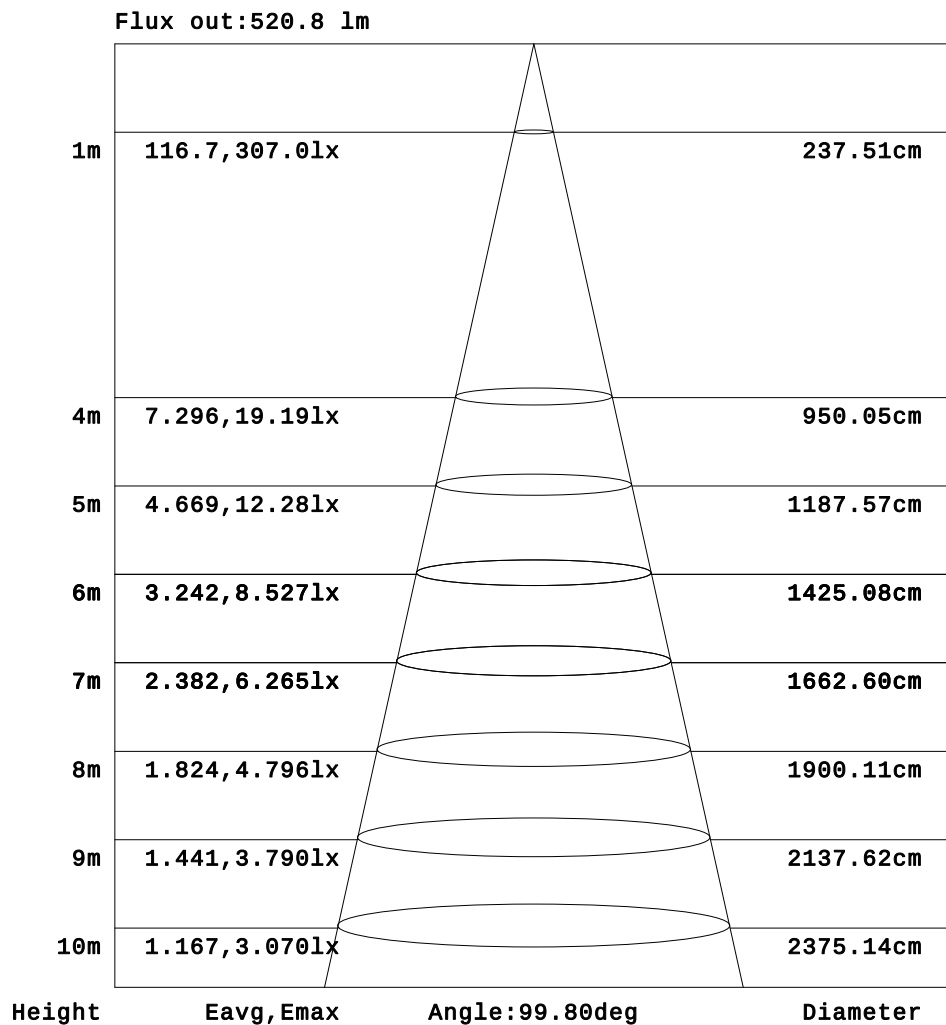


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-12-27

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:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
NAME: 8.02.003.0451 LLS-COVE1-W40-8W-277V-016	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120096
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:2024-12-27

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:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
NAME: 8.02.003.0451 LLS-COVE1-W40-8W-277V-016	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2024120096
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

Table--1																	UNIT: cd		
H(DEC) V(DEC)	-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	0.34	5.56	6.79	6.76	6.72	8.35	8.27	7.80	7.03	5.97	4.71	3.38	2.10	0.96	0.14	0.00
-75	0.00	0.00	0.00	3.86	9.26	11.7	13.1	15.8	18.2	19.7	20.8	21.5	21.9	22.0	21.8	21.4	21.0	20.7	20.6
-70	0.00	0.00	0.00	7.38	13.0	16.7	19.4	24.8	28.1	31.1	33.7	36.0	37.9	39.2	40.2	40.8	41.1	41.2	41.1
-65	0.00	0.00	1.25	10.9	17.0	23.3	28.5	35.0	40.3	45.5	50.4	54.8	58.6	61.8	64.4	66.4	67.7	68.5	68.6
-60	0.00	0.00	2.49	14.4	20.9	29.9	37.5	45.1	52.6	60.0	67.0	73.5	79.4	84.4	88.6	91.9	94.3	95.7	96.1
-55	0.00	0.00	5.53	17.6	27.1	35.7	46.8	56.6	66.6	76.4	85.9	94.6	103	110	115	120	123	125	126
-50	0.00	0.00	8.56	20.9	33.2	41.4	56.0	68.2	80.6	92.9	105	116	126	135	142	148	152	155	156
-45	0.00	0.00	11.9	25.0	37.8	49.5	64.8	79.3	94.3	109	123	136	148	158	167	174	179	182	183
-40	0.00	0.00	15.2	29.1	42.4	57.5	73.5	90.4	108	125	141	156	170	182	192	200	205	209	210
-35	0.00	0.04	17.7	30.5	46.4	63.1	81.1	100	120	139	157	173	188	201	212	221	227	231	232
-30	0.00	0.08	20.2	31.8	50.5	68.7	88.7	110	131	152	172	190	207	221	232	241	248	252	254
-25	0.00	2.92	18.4	34.8	53.4	73.0	94.5	117	140	162	183	202	220	234	246	256	263	267	269
-20	0.00	5.77	16.6	37.8	56.3	77.3	100	125	149	172	194	215	233	248	261	271	278	283	284
-15	0.00	6.69	19.9	38.8	58.0	79.8	104	129	154	178	201	222	240	256	269	279	287	291	293
-10	0.00	7.61	23.1	39.8	59.8	82.4	107	133	159	184	208	229	248	264	277	288	295	300	302
-5	0.00	8.70	23.3	40.2	60.4	83.3	109	135	161	186	210	231	250	266	279	290	298	303	304
0	0.00	9.79	23.5	40.6	61.0	84.2	110	136	163	188	212	234	252	268	282	292	300	305	307
5	0.00	9.60	23.1	39.9	60.0	82.8	108	134	160	185	209	230	249	265	278	289	297	302	303
10	0.00	9.41	22.7	39.2	59.0	81.5	106	132	158	183	206	227	246	261	275	285	293	298	300
15	0.00	9.22	22.1	38.0	57.1	78.7	102	127	152	176	199	219	237	253	266	276	284	289	291
20	0.00	9.03	21.4	36.8	55.1	75.9	98.6	122	146	170	191	212	229	244	257	267	275	279	281
25	0.00	8.49	20.2	34.6	51.7	71.0	92.1	114	137	159	179	198	215	230	242	252	259	264	265
30	0.00	7.95	19.0	32.4	48.3	66.1	85.7	106	127	147	167	185	201	215	227	237	244	248	250
35	0.00	7.45	17.7	30.0	44.4	60.4	78.0	96.6	116	134	152	168	183	196	207	216	222	226	228
40	0.00	6.95	16.3	27.5	40.4	54.8	70.4	86.9	104	121	136	151	165	176	186	195	201	204	206
45	0.00	6.17	14.5	24.5	35.7	48.1	61.5	75.6	90.0	104	118	131	142	152	161	168	174	177	178
50	0.00	5.40	12.8	21.4	30.9	41.4	52.6	64.3	76.3	88.1	99.5	110	120	129	136	142	146	149	150
55	0.00	4.59	11.1	18.3	26.2	34.9	44.0	53.3	62.8	72.2	81.2	89.6	97.3	104	110	114	118	120	121
60	0.00	3.79	9.36	15.3	21.6	28.3	35.3	42.3	49.4	56.3	62.9	69.2	74.6	79.4	83.4	86.6	89.0	90.6	91.3
65	0.00	2.53	7.50	12.1	17.0	22.1	27.2	32.3	37.3	42.1	46.6	50.7	54.2	57.1	59.5	61.4	62.8	63.7	64.1
70	0.00	1.28	5.64	9.02	12.4	15.8	19.1	22.3	25.2	27.9	30.2	32.2	33.8	34.9	35.6	36.1	36.5	36.8	37.0
75	0.00	0.64	3.13	5.93	8.28	10.3	12.2	13.9	15.3	16.4	17.2	17.6	17.8	17.6	17.8	18.1	18.2	18.4	18.5
80	0.00	0.00	0.62	2.83	4.14	4.85	5.28	5.46	5.38	4.89	4.14	3.07	1.76	0.34	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
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:2024-12-27

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:221.1V I:0.0637A P:7.498W PF:1.000 Freq:50.00Hz Lamp Flux:750.946x1 lm		
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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	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	0.00	0.11	0.88	1.86	2.95	4.03	4.94	5.62	6.03	6.16	6.02	5.59	4.89	3.97	0.01	0.00	0.00	0.00
-75	20.4	20.3	20.3	20.3	20.2	20.0	19.5	18.7	17.6	16.1	14.4	12.5	10.3	8.07	3.12	0.00	0.00	0.00
-70	40.9	40.4	39.7	38.7	37.4	35.9	34.0	31.7	29.1	26.0	22.7	19.3	15.8	12.2	6.24	0.00	0.00	0.00
-65	68.2	67.2	65.4	62.9	60.0	56.5	52.6	48.2	43.4	38.2	32.7	27.3	21.9	16.6	10.4	0.64	0.00	0.00
-60	95.6	93.9	91.0	87.2	82.5	77.1	71.2	64.7	57.7	50.3	42.7	35.3	28.1	21.1	14.6	1.28	0.00	0.00
-55	125	123	119	113	107	99.5	91.2	82.2	72.8	63.0	53.1	43.4	34.1	25.3	17.3	5.68	0.00	0.00
-50	154	151	146	140	131	122	111	99.8	87.9	75.7	63.4	51.5	40.2	29.6	20.0	10.1	0.00	0.00
-45	182	178	172	165	155	144	131	118	103	88.7	74.2	60.0	46.4	33.9	22.8	12.4	0.00	0.00
-40	209	205	198	190	179	166	151	135	119	102	84.9	68.4	52.7	38.3	25.7	14.7	0.01	0.00
-35	230	226	220	210	199	185	169	151	133	114	94.9	76.4	58.7	42.6	28.4	16.3	2.58	0.00
-30	252	248	241	231	218	204	186	167	147	126	105	84.4	64.7	46.8	31.1	17.8	5.15	0.00
-25	267	263	256	246	233	217	199	179	157	135	113	90.5	69.3	49.9	33.1	18.9	6.44	0.00
-20	283	278	271	260	247	231	212	191	168	144	120	96.6	73.9	53.1	35.1	20.0	7.73	0.00
-15	291	287	280	269	256	239	220	199	176	151	126	101	77.5	55.7	36.8	21.0	8.29	0.00
-10	300	296	289	278	265	248	229	207	183	158	131	106	81.1	58.3	38.5	22.1	8.85	0.00
-5	303	299	291	281	267	251	231	210	185	160	133	107	82.1	59.0	39.0	22.3	8.96	0.00
0	306	301	294	283	270	253	234	212	188	162	135	109	83.2	59.7	39.4	22.6	9.08	0.00
5	302	298	291	280	267	250	231	209	185	160	133	107	82.4	59.2	39.2	22.5	9.09	0.00
10	299	295	287	277	264	247	228	207	183	158	132	106	81.6	58.7	38.9	22.4	9.10	0.00
15	289	285	278	268	255	239	220	199	176	151	126	102	78.4	56.5	37.4	21.5	8.74	0.00
20	280	276	269	259	246	230	212	191	169	145	121	97.8	75.1	54.2	35.8	20.6	8.38	0.00
25	264	260	253	244	231	216	199	179	158	136	114	91.8	70.6	51.1	34.0	19.7	8.03	0.00
30	249	244	238	229	217	202	186	167	148	127	106	85.7	66.1	48.1	32.2	18.8	7.69	0.00
35	227	223	217	208	197	183	168	151	133	115	96.1	77.7	60.1	43.8	29.4	17.2	7.03	0.00
40	205	201	195	187	177	164	151	135	119	103	86.1	69.7	54.0	39.6	26.7	15.6	6.38	0.00
45	177	174	169	162	153	142	130	117	104	89.5	75.2	61.1	47.6	35.1	23.9	14.1	5.75	0.00
50	150	147	143	136	129	120	110	99.3	88.0	76.1	64.3	52.4	41.1	30.6	21.1	12.6	5.12	0.00
55	120	118	115	110	104	97.4	89.5	81.1	72.1	62.7	53.1	43.6	34.5	25.8	17.9	10.6	4.32	0.00
60	90.9	89.4	87.0	83.7	79.7	74.7	69.0	63.0	56.2	49.2	42.0	34.8	27.8	21.0	14.7	8.74	3.52	0.00
65	63.9	63.1	61.8	59.9	57.4	54.4	50.8	46.7	42.1	37.2	32.1	26.8	21.6	16.5	11.6	6.97	2.71	0.00
70	37.0	36.8	36.5	36.0	35.2	34.1	32.5	30.4	28.0	25.2	22.1	18.9	15.5	12.0	8.58	5.20	1.91	0.00
75	18.5	18.4	18.3	18.0	18.0	18.1	17.9	17.4	16.5	15.2	13.7	12.0	10.0	7.90	5.69	3.41	1.09	0.00
80	0.00	0.00	0.00	0.00	0.87	2.22	3.40	4.33	4.97	5.29	5.34	5.08	4.57	3.79	2.80	1.61	0.27	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
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:2024-12-27

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: