

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	992.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
---	---

Beam Spread	At 10% of Imax	109.1V x 109.6H
	At 50% of Imax	52.2V x 38.9H
	At 90% of Imax	18.8V x 13.7H

Beam Flux	Total	997.5 lumens per klm.
	To 10% of Imax	823.9 lumens per klm.
	To 50% of Imax	333.2 lumens per klm.
	To 90% of Imax	53.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.7 %

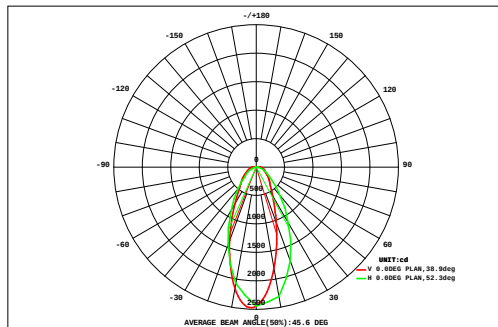
Luminaire Efficiency(Light Output Ratio)	100.0 %
--	---------

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-21

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:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm		
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500087
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:83.41lm/W	
MODELS-COVE2-W40-L12-DIM	Imax(cd)	2472	
NOMINAL POWER(W)	30	AVAILABILITY(%)	82.4
RATED VOLTAGE(V)	242	Avai. FLUX(lm)	2052
NOMINAL FLUX(lm)	2490.43	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2490
TEST VOLTAGE(V)	241.1	θ @50%(H,V)	39,52DEG

		AREA FLUX DIAGRAM															UNIT:lm			Φ t	Φ a
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
VERTICAL (DEG)	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	
	80	0.20	0.84	1.71	2.76	3.71	4.55	5.10	4.21	3.04	3.01	4.26	4.90	4.40	3.48	2.49	1.54	0.78	0.23	51.2	1.72
	70	0.19	0.79	1.61	2.65	3.77	4.95	5.43	5.80	5.40	5.38	5.60	5.44	4.67	3.53	2.45	1.47	0.70	0.19	60.0	0.00
	60	0.21	0.85	1.76	2.95	4.50	6.23	7.53	8.31	8.57	8.41	7.92	6.93	5.60	3.98	2.72	1.65	0.77	0.20	79.1	37.5
	50	0.22	0.91	1.91	3.40	5.56	8.07	10.6	13.2	14.7	14.1	11.9	9.31	7.01	4.72	3.01	1.80	0.83	0.21	111	92.9
	40	0.23	0.96	2.09	3.89	6.63	9.93	14.8	21.2	25.8	24.3	18.3	12.4	8.57	5.69	3.38	1.91	0.88	0.21	161	147
	30	0.24	1.00	2.24	4.32	7.41	11.8	20.1	32.5	42.2	39.2	26.9	16.0	9.89	6.38	3.71	2.02	0.92	0.22	227	215
	20	0.24	1.02	2.33	4.58	7.93	13.6	25.5	44.6	60.6	55.6	35.9	19.5	11.0	6.83	3.96	2.10	0.94	0.22	296	285
	10	0.23	1.01	2.37	4.69	8.14	14.5	28.5	51.7	71.9	65.7	41.3	21.5	11.6	7.03	4.07	2.14	0.96	0.22	338	327
	0	0.20	0.99	2.31	4.61	8.05	14.2	27.7	49.8	68.9	62.8	39.6	20.9	11.4	6.95	4.05	2.14	0.96	0.21	326	315
-30	-10	0.14	0.89	2.22	4.36	7.58	12.7	23.2	39.6	53.3	49.2	32.4	18.2	10.5	6.63	3.86	2.08	0.92	0.16	268	256
	-20	0.12	0.69	2.00	3.95	6.86	10.8	17.7	27.3	34.7	32.4	22.9	14.3	9.22	6.01	3.56	1.95	0.78	0.15	195	183
	-30	0.12	0.55	1.63	3.46	5.88	8.79	12.6	17.2	20.2	19.2	15.1	10.9	7.78	5.15	3.16	1.72	0.68	0.17	134	119
	-40	0.13	0.51	1.29	2.83	4.75	6.97	8.90	10.5	11.1	10.7	9.61	8.03	6.22	4.26	2.76	1.45	0.68	0.17	90.8	69.0
	-50	0.15	0.50	1.09	2.25	3.76	5.23	6.10	6.29	6.08	6.00	6.05	5.67	4.77	3.54	2.37	1.31	0.65	0.17	62.0	4.00
	-60	0.14	0.48	0.97	1.88	3.14	4.03	4.51	4.37	3.84	3.79	4.23	4.32	3.75	2.99	2.04	1.21	0.58	0.16	46.4	0.00
	-70	0.12	0.44	0.85	1.60	2.54	3.24	3.39	2.63	1.72	1.64	2.55	3.28	2.98	2.47	1.66	1.03	0.50	0.15	32.8	0.00
	-80	0.05	0.19	0.38	0.68	1.06	1.23	1.16	0.69	0.16	0.11	0.57	1.08	1.22	1.06	0.67	0.41	0.22	0.08	11.0	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
Φ t	2.95	12.6	28.8	54.8	91.3	141	223	340	432	401	285	183	121	80.7	49.9	27.9	12.7	3.10	2490	---	
Φ a	0.00	0.00	0.00	16.7	62.3	115	197	315	411	379	260	155	91.1	46.0	4.46	0.00	0.00	0.00	---	2052	

one-half-peak spread: U:24.2,D:28.4 , L:20.0,R:19.2

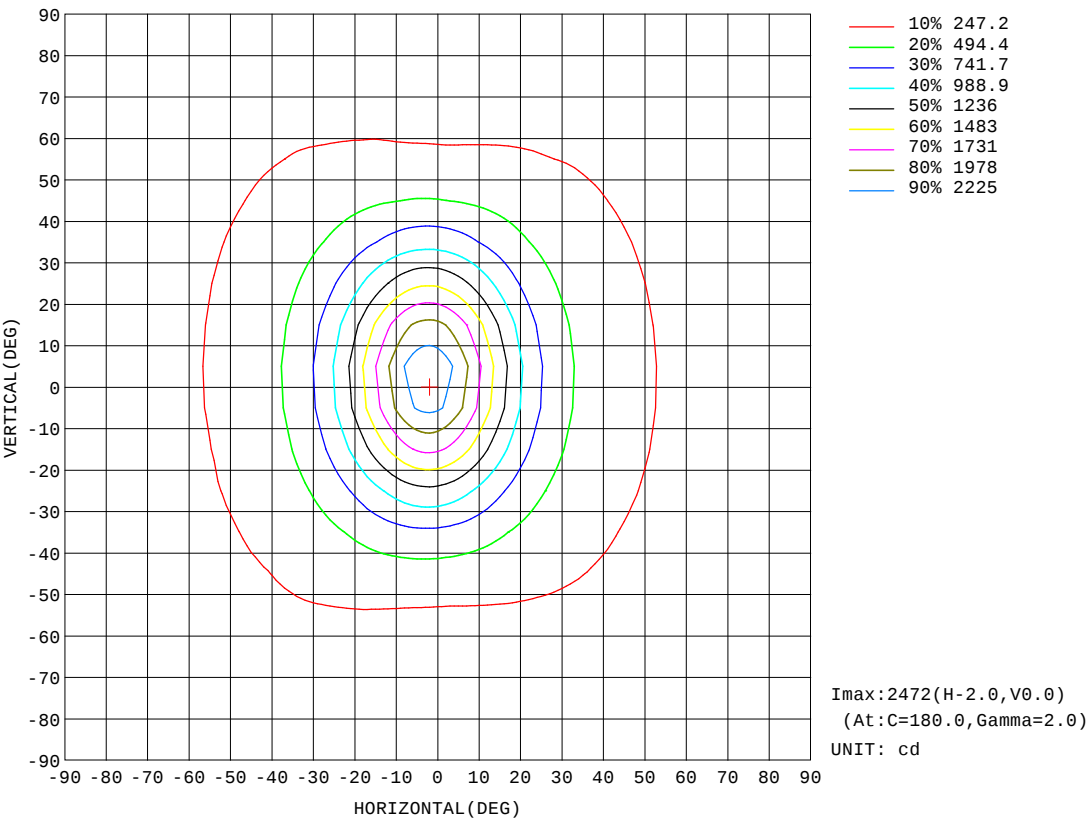
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-21

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:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm		
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500087
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

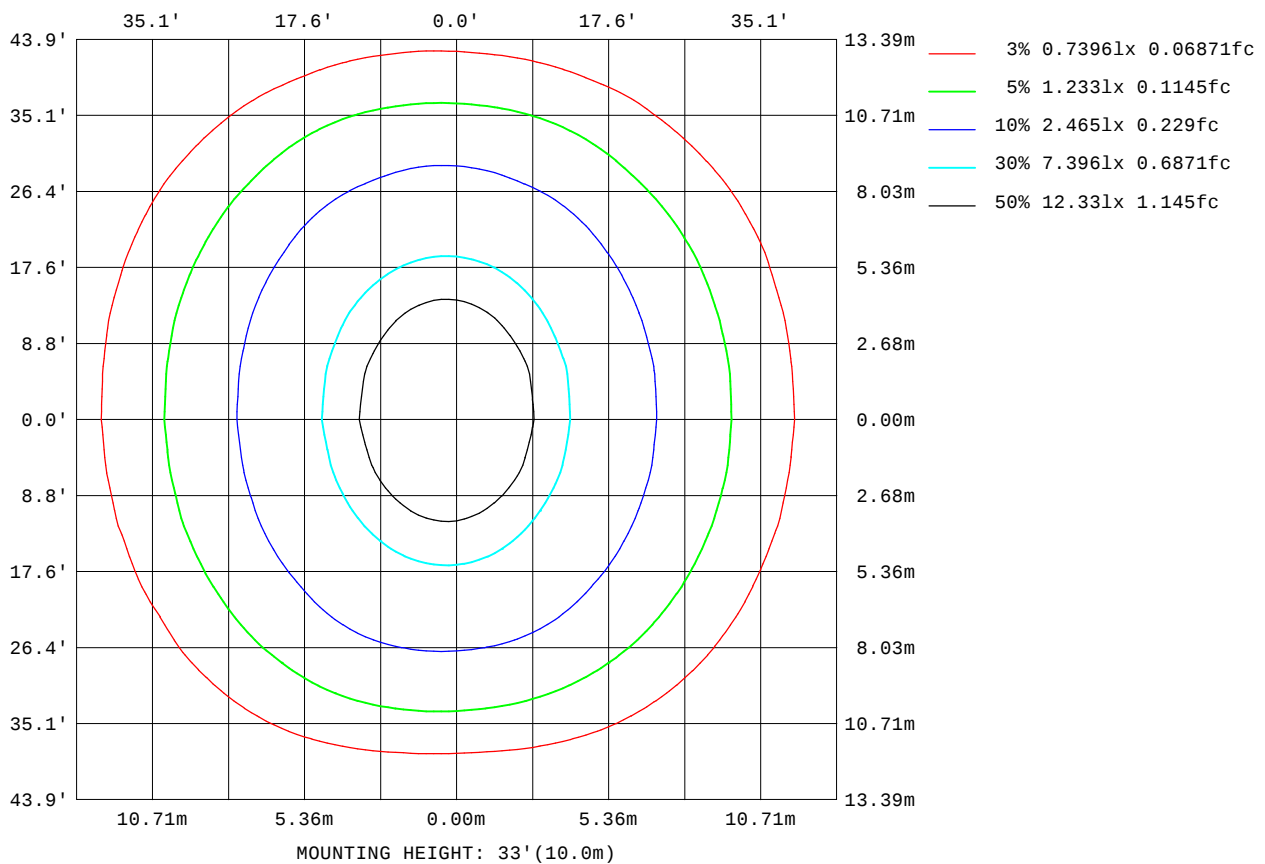


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-21

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:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm		
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500087
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

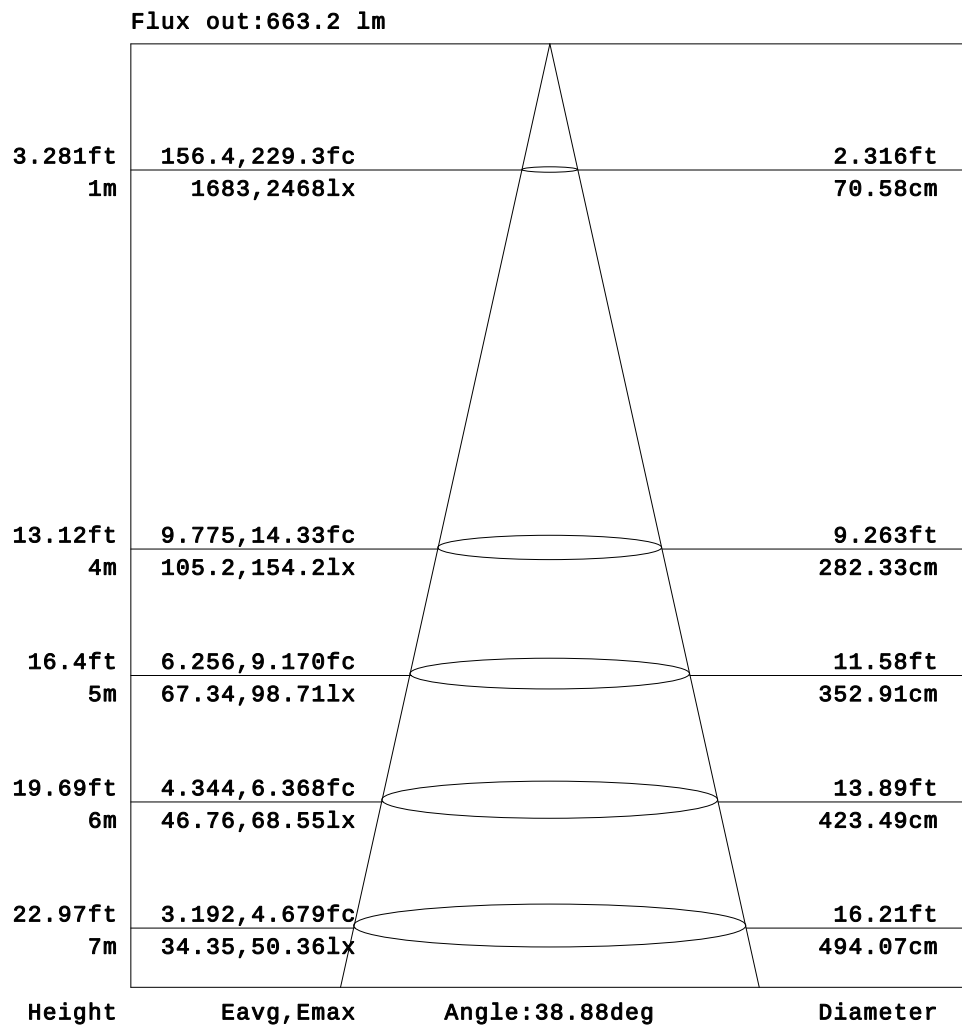


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-21

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:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm		
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500087
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

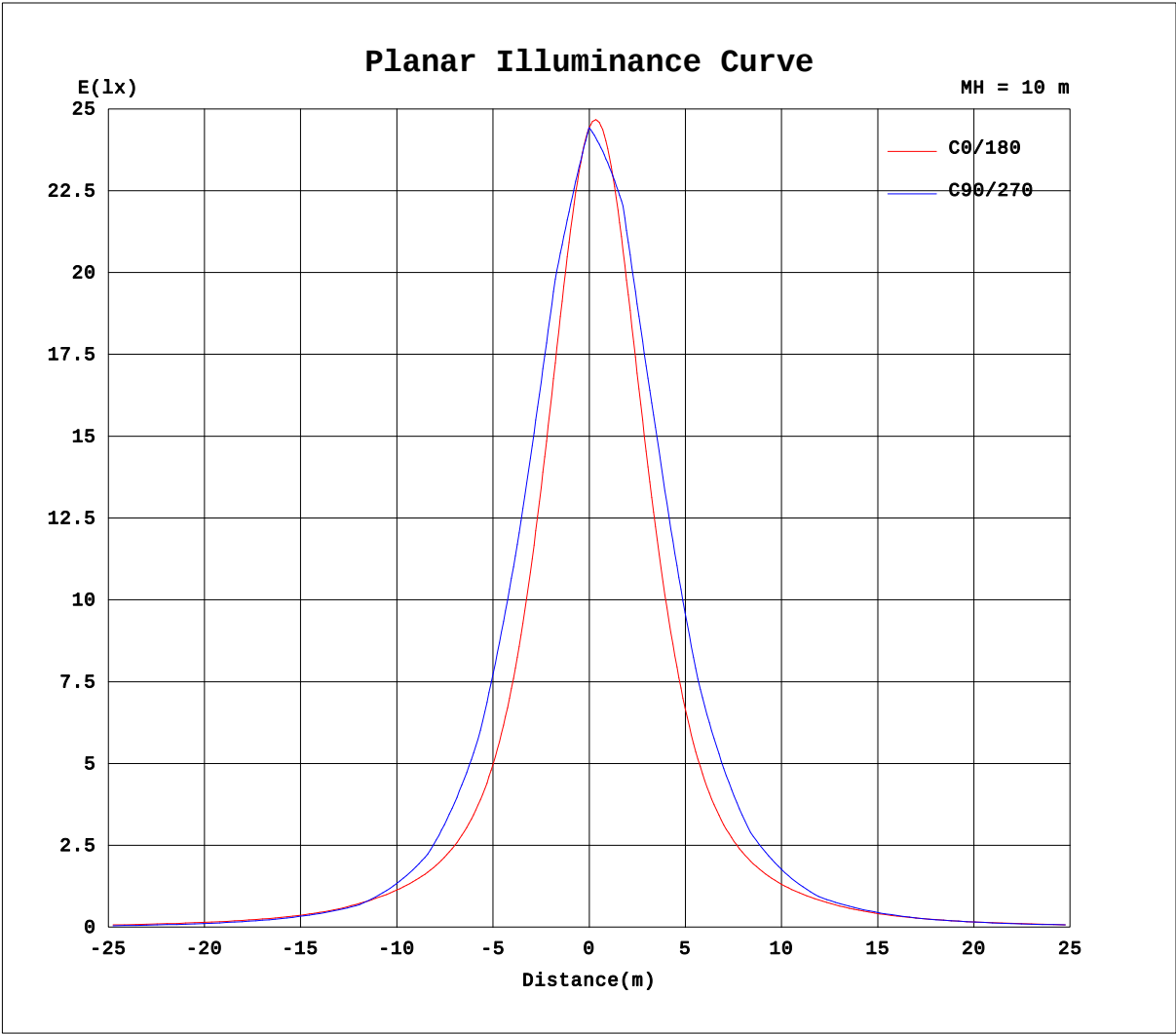


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-21

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:2024-05-21

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:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm		
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500087
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	33.2	40.1	43.2	50.6	57.3	58.7	68.8	81.2	94.7	106	110	109	107	97.5	85.0	60.4	39.6	24.5	15.8
-75	33.1	42.5	50.5	54.9	60.8	63.0	75.8	90.0	106	120	124	129	132	123	110	90.0	71.7	56.9	50.4
-70	33.0	44.9	57.9	59.3	64.3	67.3	82.8	98.9	117	133	138	149	158	148	135	120	104	89.3	85.1
-65	32.3	49.1	57.9	59.5	66.4	72.3	88.4	108	129	148	155	165	173	168	162	152	139	128	125
-60	31.5	53.2	57.9	59.7	68.5	77.3	94.0	116	140	164	171	181	189	188	190	184	175	167	164
-55	31.2	53.5	57.6	62.2	70.5	83.9	103	129	155	178	195	212	223	227	230	228	222	217	214
-50	31.0	53.7	57.2	64.7	72.5	90.5	112	142	171	193	219	243	258	266	270	271	270	267	264
-45	30.0	50.7	54.2	65.4	77.5	99.1	127	162	191	221	250	280	303	326	348	368	380	385	381
-40	29.1	47.7	51.3	66.0	82.6	108	141	182	210	249	280	317	349	386	427	464	490	504	499
-35	27.7	44.9	52.3	69.0	90.7	123	160	196	231	273	310	352	400	460	530	600	658	694	692
-30	26.3	42.1	53.3	71.9	98.9	138	179	211	251	297	340	387	450	534	633	736	826	884	886
-25	25.8	40.1	56.3	81.6	117	152	188	222	269	316	365	427	514	633	777	932	1073	1166	1169
-20	25.3	38.2	59.3	91.3	136	165	197	233	286	335	391	466	577	732	921	1127	1320	1447	1452
-15	22.1	40.9	77.4	104	140	168	204	244	297	348	410	499	633	823	1061	1327	1583	1754	1763
-10	18.8	43.5	95.6	118	144	172	211	255	308	361	429	531	689	914	1200	1527	1846	2060	2074
-5	16.5	58.0	102	121	146	176	214	260	313	367	440	551	723	969	1287	1650	2005	2245	2259
0	14.2	72.5	108	125	148	180	218	265	318	374	451	570	756	1025	1373	1773	2165	2430	2444
5	22.2	79.4	107	126	149	181	218	264	317	372	447	563	743	1004	1340	1726	2104	2360	2375
10	30.2	86.2	107	127	149	182	218	264	315	370	444	556	731	983	1307	1679	2043	2290	2307
15	32.2	86.5	107	127	148	179	214	258	310	363	430	531	686	906	1188	1506	1813	2018	2030
20	34.1	86.7	108	126	146	176	210	252	305	356	417	506	640	830	1068	1332	1582	1745	1752
25	34.9	85.6	106	124	143	171	203	243	293	341	395	468	576	727	914	1117	1307	1431	1436
30	35.6	84.6	104	123	140	167	197	233	280	326	373	430	513	624	759	902	1032	1116	1121
35	35.3	83.4	102	120	137	160	188	220	261	305	349	395	457	538	635	736	825	882	883
40	35.1	82.1	100	118	134	153	179	207	242	285	325	360	401	452	512	571	618	647	645
45	35.1	81.3	97.3	114	130	147	169	194	222	258	295	324	353	388	426	461	488	504	501
50	35.1	80.5	94.5	111	126	140	160	181	202	231	264	288	306	324	339	352	358	361	358
55	35.1	76.1	91.8	107	121	135	152	169	188	210	234	254	267	277	287	290	291	290	287
60	35.1	71.8	89.1	102	116	130	144	158	174	188	204	220	228	231	234	229	224	220	217
65	35.3	66.3	84.6	97.8	110	124	137	151	163	174	188	200	202	201	199	200	186	177	175
70	35.6	60.9	80.0	93.3	104	117	131	143	151	160	172	179	176	171	164	171	149	135	132
75	35.7	55.5	73.4	86.4	98.2	109	121	132	138	144	152	156	156	157	144	132	108	95.1	90.8
80	35.8	50.2	66.8	79.4	92.0	101	111	120	125	128	131	132	136	143	124	92.7	67.6	55.0	49.5
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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-05-21

$V(\beta)$ 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:241.1V I:0.2076A P:29.86W PF:0.5966 Lamp Flux:2490.43x1 lm			
NAME: 8.02.003.0409 20x40°LLS-COVE2-W40-L12-DIM		TYPE:LED	WEIGHT:
DIM.:		SPEC.:	SERIAL No.:20240500087
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	19.9	34.7	53.7	76.7	92.4	102	106	106	104	96.7	79.5	75.6	67.4	62.9	58.9	57.6	57.4	56.5
-75	54.0	66.9	85.4	107	119	121	120	118	115	109	92.4	85.5	78.6	70.2	63.4	59.6	57.3	56.8
-70	88.2	99.1	117	137	145	140	135	130	126	121	105	95.4	89.8	77.4	67.9	61.6	57.2	57.1
-65	127	135	147	157	161	159	152	146	138	132	115	101	93.8	83.5	73.2	63.5	59.5	56.8
-60	165	171	177	178	178	177	169	162	150	144	126	106	97.7	89.6	78.5	65.3	61.7	56.5
-55	213	215	216	214	210	204	194	179	165	154	137	115	101	92.5	81.5	67.2	60.7	56.0
-50	261	259	255	251	242	232	219	197	179	164	148	124	105	95.3	84.5	69.1	59.7	55.4
-45	370	354	335	314	292	271	250	223	197	176	158	136	112	96.4	85.3	70.5	58.9	54.9
-40	479	450	414	377	342	310	281	250	215	189	169	148	119	97.5	86.1	71.8	58.1	54.4
-35	655	594	523	454	396	348	310	275	237	204	180	157	132	105	85.4	72.3	57.2	52.4
-30	830	738	632	532	450	387	339	301	259	219	190	166	146	113	84.7	72.8	56.3	50.3
-25	1082	938	779	632	514	427	365	319	277	234	201	174	151	124	94.4	70.4	54.4	46.3
-20	1333	1138	925	731	578	468	391	338	295	249	211	182	156	135	104	67.9	52.5	42.3
-15	1608	1353	1078	832	641	505	413	352	305	259	218	186	158	138	112	82.4	53.1	31.2
-10	1883	1569	1230	932	703	542	435	366	316	268	224	190	161	140	119	96.9	53.8	20.0
-5	2040	1687	1312	983	733	559	445	371	320	273	228	193	162	140	120	96.7	65.4	27.1
0	2198	1806	1394	1034	763	576	455	377	324	278	231	195	164	140	120	96.6	77.0	34.1
5	2143	1768	1368	1019	754	571	452	376	323	276	229	194	163	140	120	96.4	76.9	49.0
10	2089	1729	1343	1004	746	566	450	375	322	274	228	192	162	140	119	96.2	76.8	64.0
15	1844	1539	1209	917	692	535	432	364	314	267	223	189	159	139	118	95.1	76.2	64.2
20	1599	1348	1075	829	638	503	414	353	307	260	218	186	157	137	117	94.0	75.6	64.3
25	1321	1130	918	726	574	465	391	339	294	248	210	180	154	135	115	93.3	75.5	64.3
30	1043	911	762	622	510	427	368	324	281	236	201	174	151	133	114	92.6	75.3	64.4
35	829	737	632	532	450	387	341	303	262	222	192	167	147	129	110	90.6	74.5	64.6
40	614	562	501	441	390	348	314	282	243	208	182	160	144	126	107	88.6	73.7	64.8
45	482	451	414	376	339	309	283	254	220	193	172	154	139	121	103	86.3	72.9	64.6
50	350	340	327	311	289	271	252	226	197	178	161	148	134	117	99.5	84.0	72.1	64.5
55	284	280	275	267	254	243	227	206	185	168	155	142	127	111	95.4	81.5	71.0	64.4
60	217	221	223	222	219	216	202	185	173	158	148	135	121	105	91.4	78.9	70.0	64.3
65	177	184	192	194	198	196	187	173	163	150	139	127	114	100.0	87.6	76.9	69.5	64.3
70	136	147	161	166	177	176	171	160	153	142	130	118	106	94.5	83.8	74.9	69.0	64.3
75	94.8	107	130	146	153	154	150	142	136	128	119	109	98.3	88.3	79.5	72.6	68.0	63.9
80	53.6	66.2	99.2	125	128	131	129	125	119	114	107	99.2	90.3	82.0	75.2	70.2	66.9	63.4
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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-05-21

$V(\beta)$ 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: