

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	348.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	158.3V x 152.6H
	At 50% of Imax	119.2V x 108.5H
	At 90% of Imax	61.9V x 46.5H

Beam Flux	Total	998.1 lumens per klm.
	To 10% of Imax	986.8 lumens per klm.
	To 50% of Imax	773.5 lumens per klm.
	To 90% of Imax	224.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.8 %

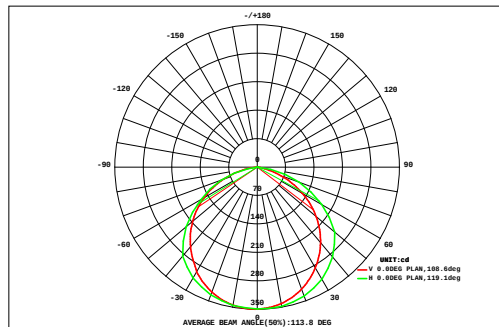
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:1.533A P:36.78W PF:1.000 Lamp Flux:1003.82x1 lm		
NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:27.29lm/W	
MODEL	LLS-CN-W100-L12-DMX	Imax(cd)	349.3
NOMINAL POWER(W)	36	AVAILABILITY(%)	99.1
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	994.7
NOMINAL FLUX(lm)	1003.82	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1004
TEST VOLTAGE(V)	24.0	θ @50%(H,V)	109,119DEG

VERTICAL (DEG)	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	0.00
90	0.00	0.01	0.12	0.45	0.91	1.38	1.79	2.07	2.18	2.09	1.82	1.39	0.90	0.43	0.16	0.02	0.00	0.00	15.7	14.0
80	0.00	0.06	0.44	1.13	2.00	2.88	3.64	4.20	4.45	4.38	3.98	3.30	2.44	1.51	0.69	0.15	0.00	0.00	35.3	34.7
70	0.00	0.17	0.74	1.73	2.98	4.26	5.38	6.19	6.58	6.50	5.96	5.01	3.78	2.45	1.29	0.44	0.03	0.00	53.5	53.1
60	0.01	0.26	1.01	2.23	3.73	5.29	6.71	7.73	8.23	8.14	7.47	6.29	4.79	3.23	1.80	0.71	0.09	0.00	67.7	67.5
50	0.01	0.34	1.24	2.63	4.31	6.02	7.54	8.67	9.22	9.12	8.39	7.13	5.54	3.83	2.21	0.93	0.16	0.00	77.3	77.1
40	0.02	0.41	1.40	2.90	4.70	6.53	8.17	9.37	9.97	9.89	9.12	7.78	6.11	4.28	2.53	1.10	0.22	0.00	84.5	84.3
30	0.02	0.45	1.52	3.08	4.91	6.80	8.52	9.77	10.4	10.3	9.57	8.23	6.47	4.55	2.71	1.20	0.25	0.00	88.8	88.6
20	0.03	0.47	1.57	3.17	5.03	6.93	8.64	9.91	10.6	10.5	9.75	8.38	6.59	4.66	2.80	1.25	0.27	0.00	90.5	90.4
10	0.02	0.47	1.56	3.15	5.00	6.89	8.61	9.86	10.5	10.5	9.70	8.34	6.58	4.65	2.78	1.24	0.27	0.00	90.1	89.9
0	0.01	0.41	1.49	3.05	4.87	6.72	8.39	9.64	10.3	10.2	9.49	8.14	6.37	4.48	2.66	1.17	0.24	0.00	87.7	87.5
-10	0.00	0.30	1.32	2.80	4.52	6.30	7.94	9.18	9.82	9.78	9.04	7.73	6.04	4.19	2.44	1.03	0.16	0.00	82.6	82.4
-20	0.00	0.18	1.03	2.44	4.06	5.73	7.28	8.48	9.10	9.06	8.34	7.05	5.42	3.70	2.11	0.81	0.09	0.00	74.9	74.6
-30	0.00	0.12	0.71	1.95	3.41	4.91	6.31	7.35	7.87	7.80	7.17	6.05	4.60	3.05	1.65	0.52	0.05	0.00	63.5	63.2
-40	0.00	0.07	0.45	1.37	2.63	3.87	4.92	5.62	5.94	5.84	5.35	4.49	3.41	2.20	1.06	0.28	0.01	0.00	47.5	47.0
-50	0.00	0.02	0.26	0.87	1.81	2.63	3.27	3.72	3.89	3.77	3.36	2.69	1.92	1.16	0.43	0.06	0.00	0.00	29.9	29.1
-60	0.00	0.01	0.12	0.47	0.99	1.41	1.72	1.89	1.89	1.70	1.38	0.99	0.60	0.29	0.05	0.00	0.00	0.00	13.5	11.2
-70	0.00	0.00	0.00	0.03	0.11	0.16	0.18	0.18	0.14	0.09	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.95	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	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	0.13	3.76	15.0	33.4	56.0	78.7	99.0	114	121	120	110	93.0	71.5	48.7	27.4	10.9	1.86	0.00	1004	---
Φ a	0.00	2.78	14.1	32.8	55.5	78.3	98.7	114	121	119	110	92.4	71.0	48.1	26.7	10.1	0.98	0.00	---	995

one-half-peak spread: U:58.2,D:61.5 , L:55.3,R:53.9

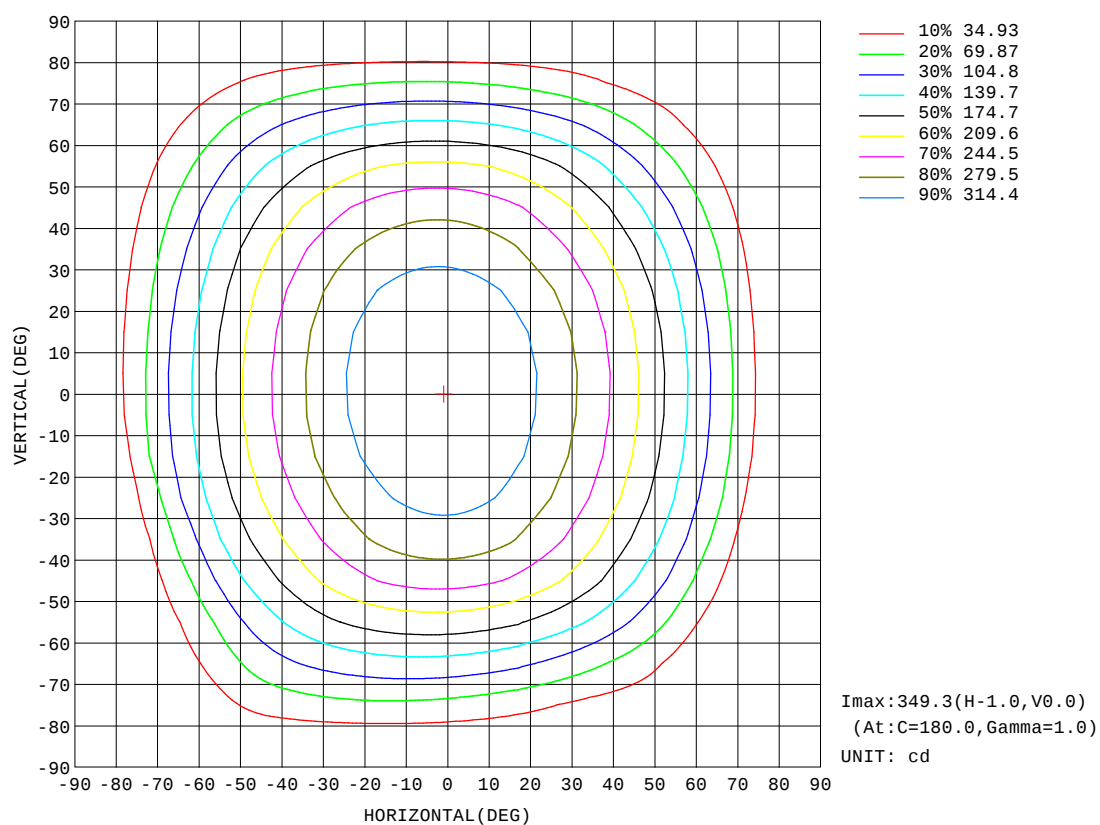
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:1.533A P:36.78W PF:1.000 Lamp Flux:1003.82x1 lm		
NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

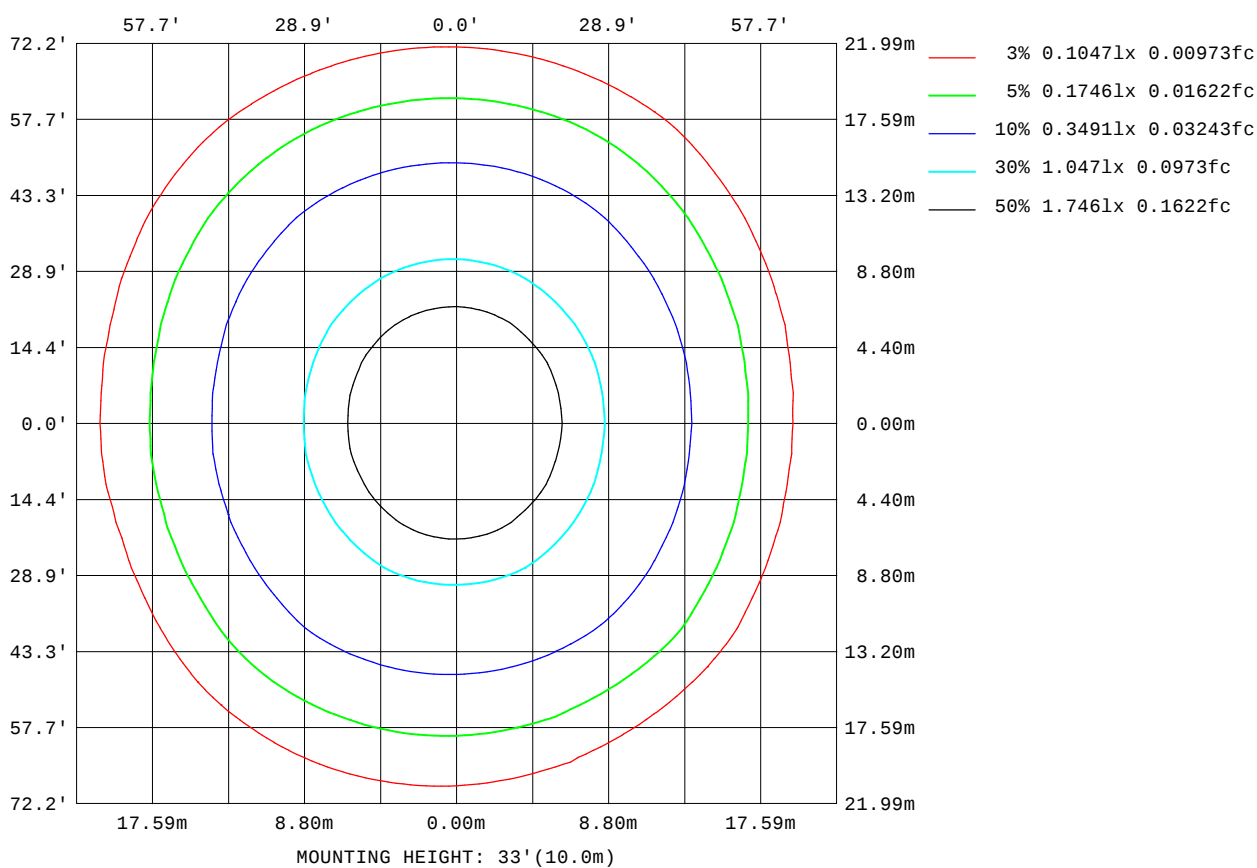


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:1.533A P:36.78W PF:1.000 Lamp Flux:1003.82x1 lm		
NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



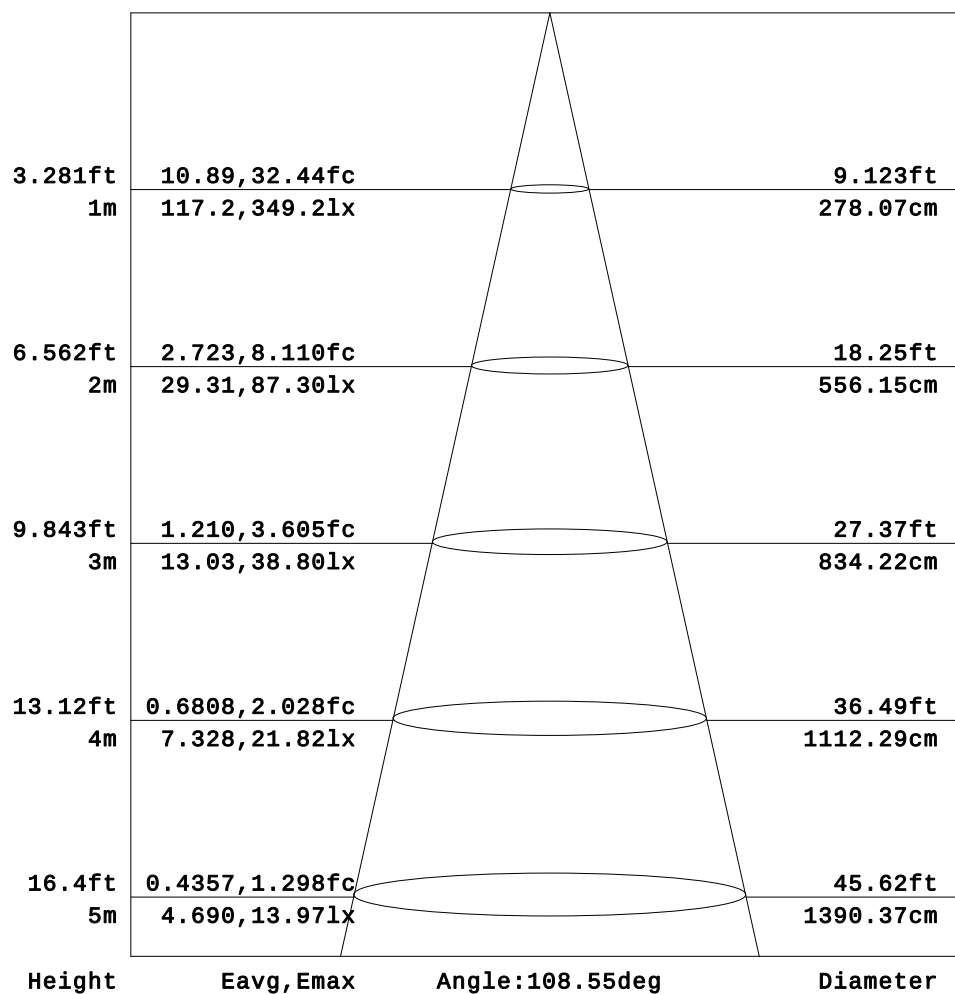
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:1.533A P:36.78W PF:1.000 Lamp Flux:1003.82x1 lm		
NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Flux out:723.9 lm

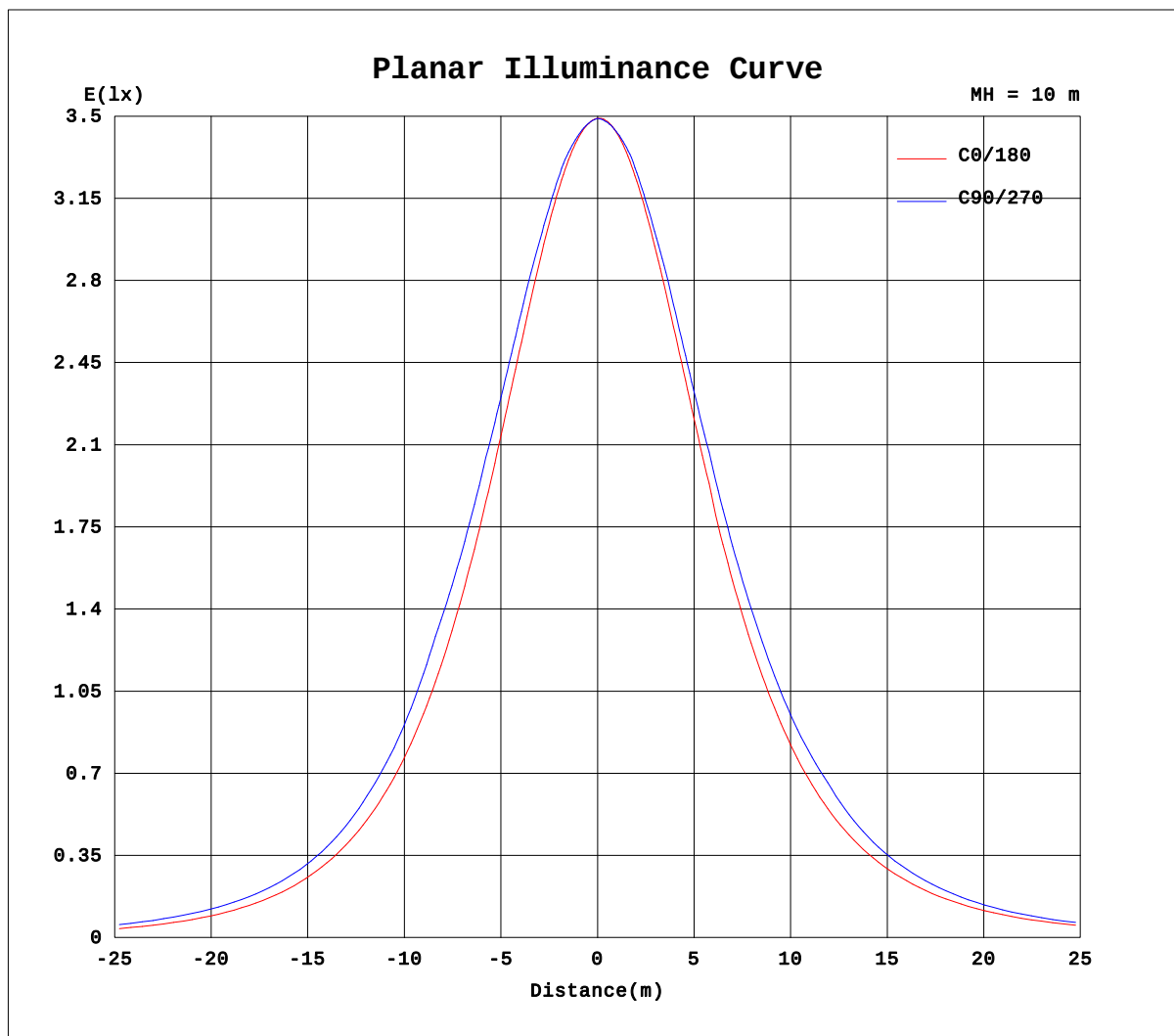


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 30.0DEG
Operators: QC1
Test Date: 2023-08-19

V(B) Range: -80 - 80DEG
V(B) Interval: 5.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity: 44%
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:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:1.533A P:36.78W PF:1.000 Lamp Flux:1003.82x1 lm		
NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
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	4.55	10.3	16.6	21.7	25.0	27.1	28.5	29.3	29.5	29.1	27.9	26.0	23.4
-75	0.00	0.00	0.00	0.39	4.19	7.66	15.5	25.0	35.6	45.1	50.9	55.3	58.7	61.2	62.8	63.3	62.9	61.5	59.1
-70	0.00	0.00	0.00	0.78	8.38	15.3	26.4	39.6	54.5	68.5	76.8	83.5	89.0	93.1	96.0	97.6	97.9	97.0	94.8
-65	0.00	0.00	0.00	1.83	10.4	19.8	33.8	50.1	68.6	85.2	96.9	106	114	120	124	127	129	129	128
-60	0.00	0.00	0.00	2.88	12.3	24.2	41.1	60.5	82.7	102	117	129	138	146	153	157	160	161	161
-55	0.00	0.00	0.01	6.87	17.9	33.7	53.9	77.2	101	121	139	154	166	176	184	190	193	195	194
-50	0.00	0.00	0.02	10.9	23.5	43.1	66.8	93.8	120	141	160	178	194	207	216	222	226	228	228
-45	0.00	0.00	1.10	13.5	30.2	53.6	81.2	110	136	157	177	196	213	228	239	248	254	257	257
-40	0.00	0.00	2.19	16.1	36.9	64.1	95.6	127	151	174	195	214	232	248	262	274	281	285	286
-35	0.00	0.00	3.01	20.4	45.0	77.7	109	139	164	187	209	229	247	263	277	288	295	300	300
-30	0.00	0.00	3.82	24.8	53.1	91.4	122	151	176	201	223	243	262	278	291	302	310	314	315
-25	0.00	0.00	6.32	32.0	65.3	101	130	159	185	209	232	252	271	288	301	312	319	324	325
-20	0.00	0.00	8.82	39.2	77.5	110	138	168	194	218	241	261	280	298	311	322	329	333	334
-15	0.00	0.00	16.1	46.2	81.5	114	144	173	200	224	247	268	287	304	317	327	335	339	340
-10	0.00	0.00	23.4	53.3	85.6	117	149	178	206	231	254	275	294	310	323	333	341	345	345
-5	0.00	0.00	24.6	55.2	87.4	119	150	179	206	232	255	276	296	312	325	335	343	347	347
0	0.00	0.00	25.8	57.1	89.3	121	152	180	207	233	256	277	298	314	327	337	344	349	349
5	0.00	0.02	25.4	56.2	88.1	120	150	180	207	232	256	277	297	313	326	337	344	348	349
10	0.00	0.04	25.0	55.3	86.9	118	149	179	207	232	255	277	296	312	325	336	343	347	348
15	0.00	0.02	24.0	53.6	84.6	116	146	175	202	228	251	272	291	308	321	332	339	343	343
20	0.00	0.00	22.9	51.9	82.3	113	143	171	198	223	246	267	286	304	317	327	334	338	338
25	0.00	0.00	20.5	48.2	77.5	107	136	165	192	217	240	261	279	296	308	318	325	328	328
30	0.00	0.00	18.2	44.4	72.6	101	130	159	186	211	233	254	272	287	299	309	315	318	319
35	0.00	0.00	15.7	40.2	66.7	94.0	121	149	175	199	221	241	258	273	285	294	300	304	304
40	0.00	0.00	13.1	35.9	60.8	86.7	113	139	164	187	209	228	244	259	271	280	286	289	289
45	0.00	0.00	9.69	30.3	53.0	76.9	101	126	150	172	192	210	227	241	252	260	266	269	269
50	0.00	0.00	6.25	24.8	45.3	67.1	89.8	113	136	157	176	193	209	223	233	241	246	249	249
55	0.00	0.00	3.12	19.0	36.9	56.2	76.5	97.6	118	137	154	169	183	194	203	210	214	216	216
60	0.00	0.00	0.00	13.2	28.4	45.3	63.3	82.3	101	118	133	145	156	165	173	178	182	184	183
65	0.00	0.00	0.00	7.14	19.5	33.3	48.2	64.0	79.4	93.0	105	116	125	132	138	143	146	147	147
70	0.00	0.00	0.00	1.12	10.6	21.4	33.1	45.7	57.9	68.3	77.5	85.7	93.1	99.0	104	107	110	110	110
75	0.00	0.00	0.00	0.56	5.31	10.7	18.6	27.5	36.2	43.7	50.3	56.1	61.3	65.4	68.7	71.1	72.4	72.7	72.0
80	0.00	0.00	0.00	0.00	0.00	0.00	4.09	9.19	14.4	19.2	23.0	26.5	29.5	31.8	33.6	34.8	35.3	35.1	34.3
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

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
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 Operators:QC1
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V(B) Range:-80 - 80DEG
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LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.02.022.0016 LLS-CN-W100-L12-DMX	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023080019
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

H(DEC) V(DEC)	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	20.1	16.9	13.3	9.97	6.68	3.09	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	55.7	51.7	47.0	41.9	36.5	30.4	24.5	19.9	15.3	10.0	4.37	0.38	0.00	0.00	0.00	0.00	0.00	0.00	
-70	91.2	86.5	80.8	73.9	66.2	57.8	48.9	39.9	30.6	20.0	8.73	0.76	0.00	0.00	0.00	0.00	0.00	0.00	
-65	125	120	115	106	97.6	87.8	77.1	65.8	53.7	40.2	24.4	11.6	4.89	0.00	0.00	0.00	0.00	0.00	
-60	158	154	148	139	129	118	105	91.6	76.8	60.4	40.0	22.5	9.78	0.00	0.00	0.00	0.00	0.00	
-55	192	187	181	172	161	149	134	118	100	81.2	59.3	36.6	20.2	7.02	0.00	0.00	0.00	0.00	
-50	226	221	214	204	193	179	163	145	124	102	78.5	50.7	30.5	14.0	0.00	0.00	0.00	0.00	
-45	254	249	241	230	217	201	183	163	140	117	93.0	65.0	39.0	19.4	3.20	0.00	0.00	0.00	
-40	283	278	269	257	241	223	202	180	157	133	108	79.4	47.4	24.7	6.40	0.00	0.00	0.00	
-35	298	292	284	270	255	237	216	194	170	145	119	90.6	60.0	31.2	9.21	0.00	0.00	0.00	
-30	313	307	299	284	269	251	230	208	184	158	130	102	72.5	37.6	12.0	0.00	0.00	0.00	
-25	322	317	308	294	279	261	241	218	193	167	138	108	78.4	45.4	16.3	0.00	0.00	0.00	
-20	332	326	317	305	290	272	251	228	203	176	146	115	84.3	53.3	20.5	0.00	0.00	0.00	
-15	337	332	322	310	295	276	255	232	207	180	151	120	88.6	56.9	24.9	1.23	0.00	0.00	
-10	343	337	328	316	301	280	260	237	212	184	155	125	92.8	60.5	29.3	2.46	0.00	0.00	
-5	345	339	330	318	302	283	263	240	214	187	158	126	94.0	61.4	29.9	2.72	0.00	0.00	
0	347	341	331	319	304	286	266	243	217	190	160	127	95.2	62.3	30.4	2.99	0.00	0.00	
5	346	340	331	319	304	284	264	241	216	188	159	127	94.9	62.1	30.4	3.05	0.00	0.00	
10	346	340	330	318	303	283	262	239	214	187	158	127	94.5	61.9	30.4	3.11	0.00	0.00	
15	340	334	325	313	298	278	258	235	210	183	154	123	91.1	59.1	28.4	2.05	0.00	0.00	
20	335	329	319	307	292	274	254	231	206	179	150	119	87.8	56.3	26.3	0.99	0.00	0.00	
25	325	319	310	296	282	264	244	222	198	171	143	113	82.9	52.5	23.8	0.50	0.00	0.00	
30	316	309	300	286	271	254	235	213	189	163	136	107	78.0	48.7	21.3	0.00	0.00	0.00	
35	300	294	285	272	258	241	221	200	176	152	125	98.0	70.1	42.5	17.1	0.00	0.00	0.00	
40	285	279	270	258	244	227	208	187	164	140	115	88.6	62.3	36.3	12.9	0.00	0.00	0.00	
45	266	260	251	240	226	209	191	170	148	125	102	77.4	53.0	29.4	8.54	0.00	0.00	0.00	
50	246	241	233	222	208	191	173	154	133	111	88.6	66.2	43.8	22.6	4.15	0.00	0.00	0.00	
55	214	209	202	192	180	166	150	132	113	93.0	72.8	52.7	33.1	14.8	2.08	0.00	0.00	0.00	
60	181	177	171	163	153	141	127	111	93.0	75.0	57.0	39.3	22.4	7.11	0.00	0.00	0.00	0.00	
65	144	141	135	128	120	110	97.8	84.5	70.1	55.2	40.3	25.8	12.3	3.56	0.00	0.00	0.00	0.00	
70	108	105	99.9	93.9	86.7	78.3	68.8	58.5	47.3	35.4	23.5	12.3	2.11	0.00	0.00	0.00	0.00	0.00	
75	70.3	67.6	63.8	59.1	53.6	47.2	40.3	32.7	24.8	17.7	11.8	6.16	1.05	0.00	0.00	0.00	0.00	0.00	
80	32.8	30.7	27.8	24.4	20.5	16.1	11.8	7.00	2.24	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	
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:30.0DEG
Operators:QC1
Test Date:2023-08-19

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:44%
Test Distance:8.300m [K=1.0000]
Remarks: