

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	288.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	151.8V x 180.0H
	At 50% of Imax	107.1V x 146.8H
	At 90% of Imax	49.2V x 67.8H

Beam Flux	Total	995.7 lumens per klm.
	To 10% of Imax	992.2 lumens per klm.
	To 50% of Imax	793.2 lumens per klm.
	To 90% of Imax	223.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.6 %

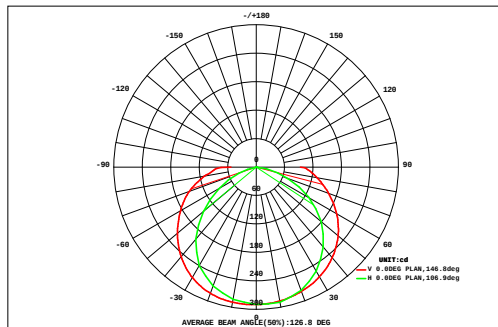
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:30.07lm/W	
MODEL:OP-D50-L12-RDM(AL)		Imax(cd)	290.0
NOMINAL POWER(W)	34	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	278	Avai. FLUX(lm)	1005
NOMINAL FLUX(lm)	1006.96	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1007
TEST VOLTAGE(V)	277.1	θ @50%(H,V)	147,107DEG

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	0.28	0.91	1.62	2.34	2.80	2.86	2.58	2.01	1.53	1.50	1.97	2.58	2.96	2.98	2.57	1.85	1.06	0.34	34.7	34.6
70	0.24	0.80	1.51	2.34	3.01	3.34	3.39	3.26	3.07	3.04	3.20	3.36	3.35	3.03	2.43	1.68	0.93	0.28	42.3	42.3
60	0.24	0.86	1.70	2.67	3.54	4.21	4.61	4.75	4.72	4.68	4.66	4.52	4.17	3.55	2.74	1.84	0.98	0.29	54.7	54.7
50	0.25	0.92	1.86	2.94	4.02	4.96	5.67	6.03	6.12	6.06	5.87	5.51	4.90	4.05	3.05	1.99	1.04	0.30	65.5	65.5
40	0.26	0.97	1.99	3.18	4.44	5.59	6.49	7.02	7.22	7.17	6.86	6.32	5.52	4.49	3.31	2.12	1.09	0.31	74.3	74.3
30	0.26	1.01	2.08	3.35	4.75	6.07	7.13	7.80	8.08	8.03	7.65	6.97	6.02	4.83	3.51	2.22	1.13	0.31	81.2	81.2
20	0.27	1.03	2.14	3.46	4.93	6.37	7.54	8.29	8.62	8.57	8.16	7.41	6.35	5.05	3.63	2.28	1.15	0.31	85.6	85.6
10	0.26	1.04	2.16	3.51	5.00	6.46	7.66	8.45	8.81	8.78	8.35	7.56	6.47	5.14	3.70	2.32	1.17	0.32	87.2	87.2
0	0.24	1.03	2.15	3.49	4.97	6.40	7.58	8.35	8.70	8.67	8.25	7.48	6.41	5.10	3.68	2.31	1.16	0.31	86.3	86.3
-10	0.19	0.95	2.08	3.39	4.81	6.19	7.31	8.03	8.36	8.33	7.94	7.23	6.21	4.96	3.59	2.27	1.13	0.26	83.2	83.2
-20	0.17	0.80	1.94	3.18	4.51	5.78	6.80	7.44	7.72	7.70	7.37	6.76	5.84	4.70	3.43	2.17	1.00	0.23	77.5	77.5
-30	0.17	0.66	1.66	2.90	4.06	5.17	6.04	6.55	6.72	6.69	6.47	6.04	5.30	4.33	3.21	1.99	0.89	0.25	69.1	69.1
-40	0.18	0.62	1.37	2.56	3.58	4.45	5.05	5.30	5.32	5.26	5.19	5.01	4.58	3.87	2.92	1.73	0.90	0.26	58.1	58.1
-50	0.18	0.61	1.19	2.13	3.08	3.59	3.80	3.77	3.65	3.60	3.68	3.74	3.67	3.31	2.55	1.59	0.87	0.25	45.3	45.3
-60	0.18	0.58	1.05	1.77	2.48	2.68	2.61	2.34	2.03	1.99	2.26	2.59	2.76	2.68	2.13	1.48	0.83	0.25	32.7	32.7
-70	0.17	0.53	0.93	1.46	1.86	1.90	1.62	1.11	0.66	0.61	1.04	1.60	1.99	2.10	1.76	1.31	0.75	0.24	21.6	20.6
-80	0.08	0.25	0.42	0.63	0.74	0.68	0.51	0.20	0.01	0.01	0.17	0.50	0.75	0.86	0.75	0.57	0.33	0.11	7.56	7.05
-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	3.63	13.6	27.8	45.3	62.6	76.7	86.4	90.7	91.3	90.7	89.1	85.2	77.2	65.0	49.0	31.7	16.4	4.61	1007	---
Φ a	3.63	13.6	27.8	45.3	62.6	76.7	86.3	90.3	90.9	90.3	88.7	85.1	77.2	65.0	49.0	31.7	16.4	4.61	---	1005

one-half-peak spread: U:50.6,D:57.1 , L:68.8,R:78.8

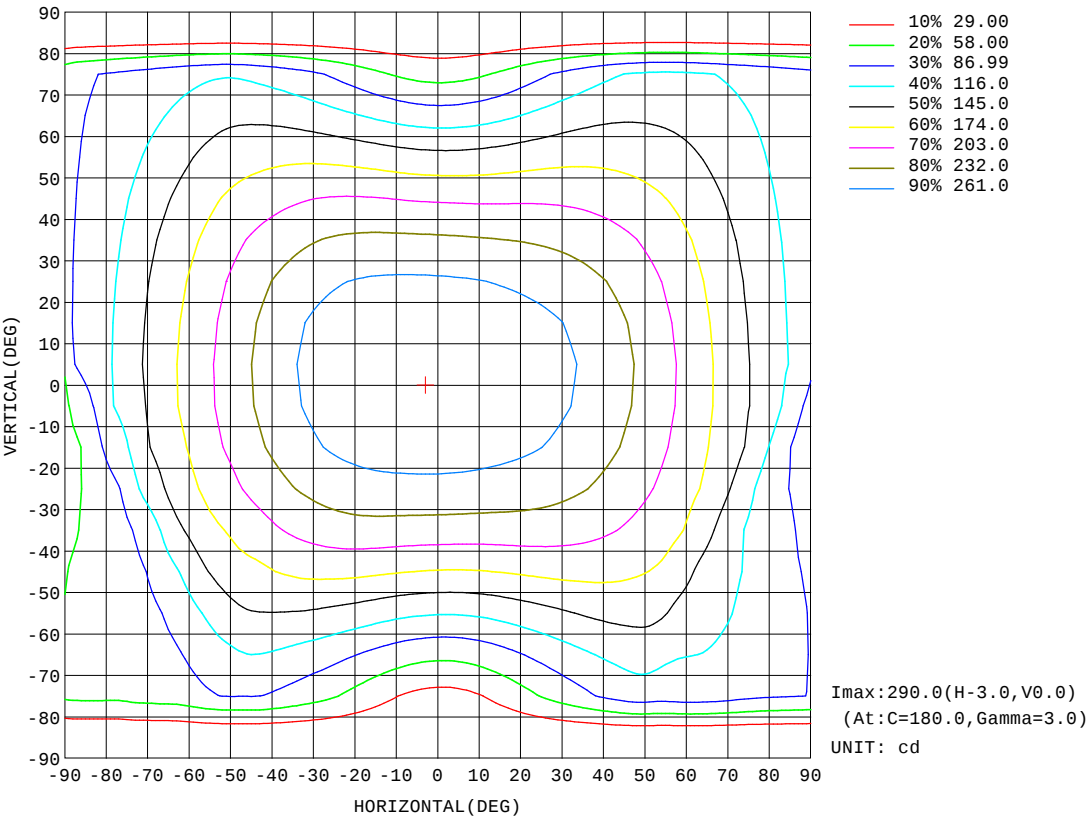
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

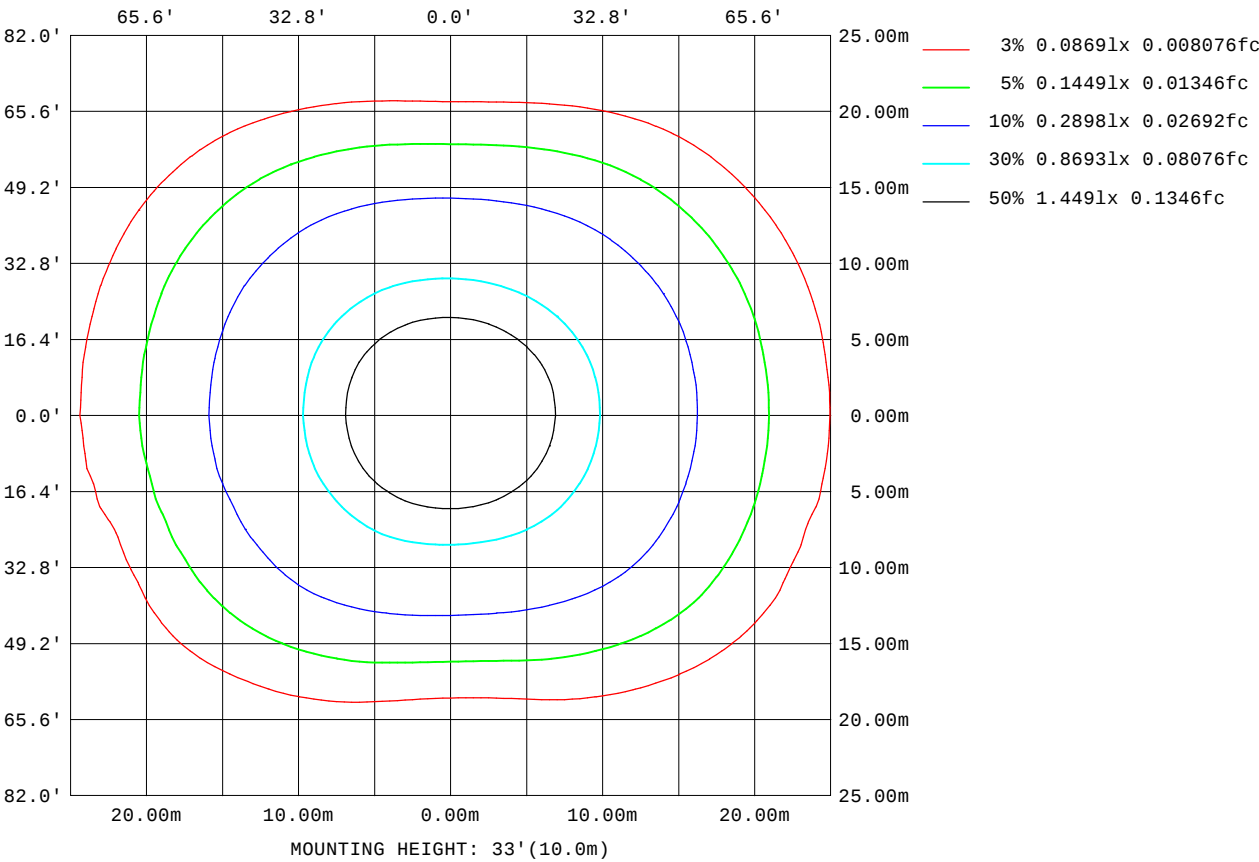


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

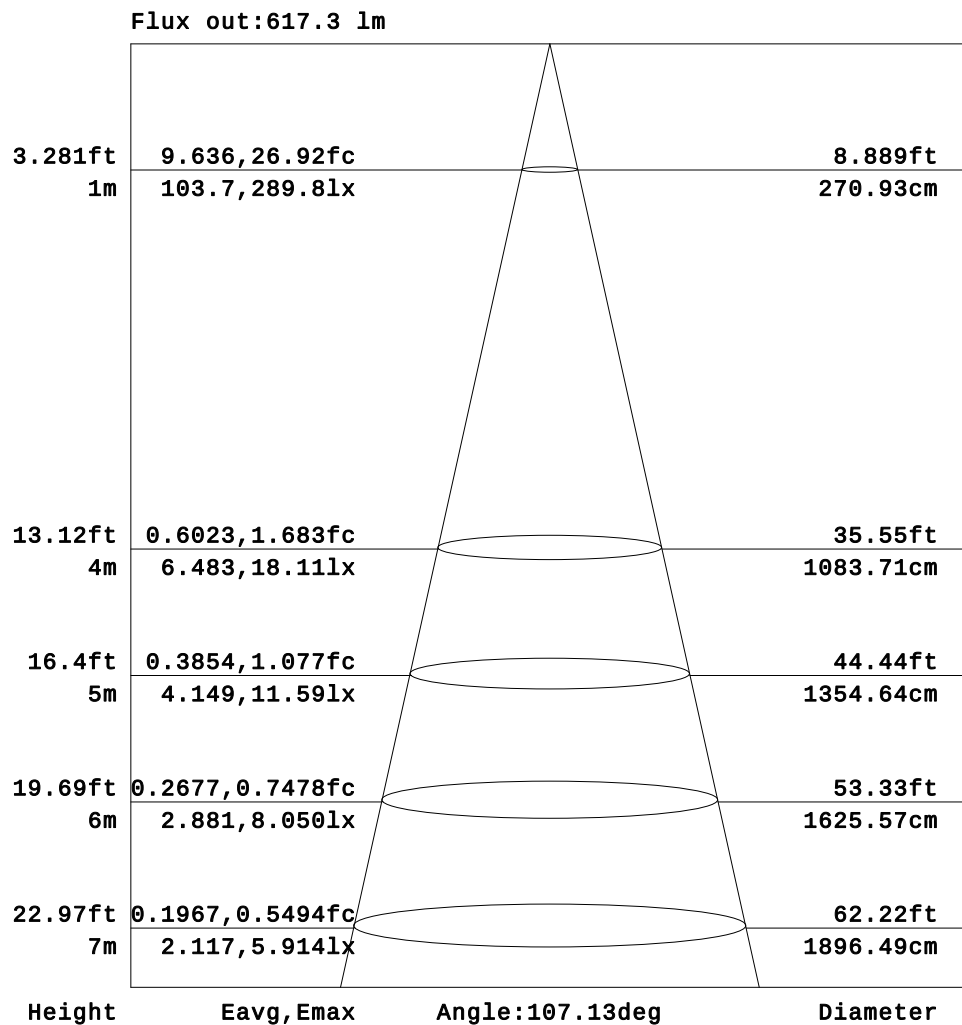


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

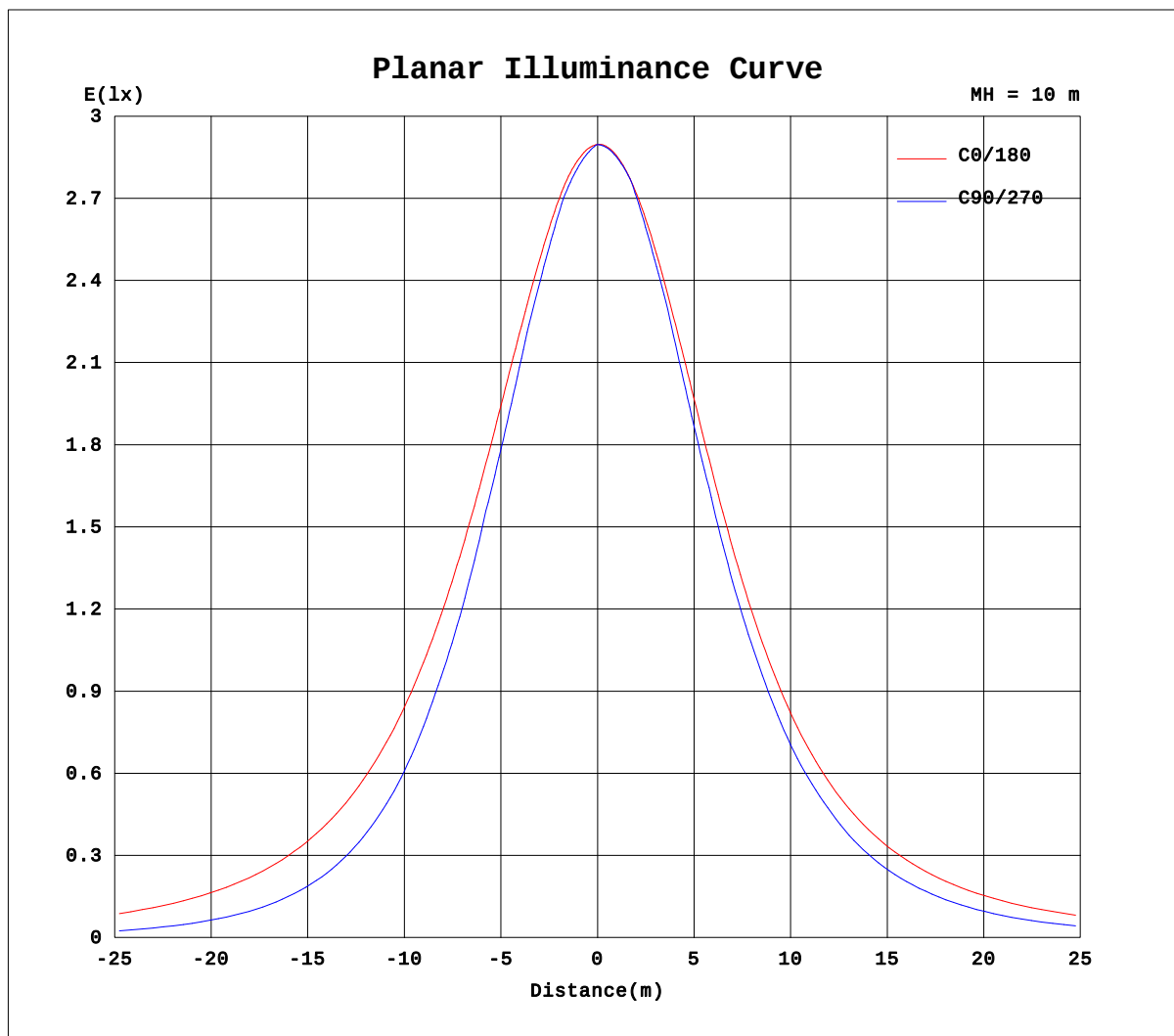


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
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	63.4	63.9	63.2	63.6	66.3	67.9	71.2	76.4	77.8	75.4	70.1	62.6	54.3	45.0	33.4	21.8	11.2	3.12	0.00
-75	63.1	65.5	65.1	66.9	70.2	71.7	77.2	84.5	88.0	87.9	84.1	77.2	69.1	60.3	49.6	39.1	29.8	22.6	19.5
-70	62.9	67.0	67.1	70.2	74.1	75.5	83.1	92.5	98.2	100	98.1	91.9	83.9	75.6	65.9	56.5	48.3	42.1	39.1
-65	61.9	67.2	68.0	73.0	76.8	80.2	90.6	102	110	116	114	108	102	95.5	87.8	79.9	72.6	67.2	64.7
-60	61.0	67.4	68.9	75.8	79.4	84.9	98.1	111	122	132	129	125	121	115	110	103	96.9	92.3	90.4
-55	59.9	66.2	70.5	76.8	80.8	91.5	107	122	136	144	144	144	142	138	133	128	124	120	118
-50	58.8	65.0	72.1	77.8	82.2	98.1	115	132	150	156	160	162	163	160	157	154	150	148	146
-45	55.7	63.7	72.3	77.7	88.0	106	126	146	160	167	173	178	181	182	181	179	176	174	172
-40	52.6	62.4	72.4	77.5	93.8	114	136	160	169	177	186	194	200	204	205	204	202	200	199
-35	49.7	61.8	70.8	83.1	101	128	150	167	177	188	198	207	214	219	221	222	221	220	219
-30	46.8	61.2	69.3	88.6	108	142	163	175	185	199	211	220	228	234	238	240	240	240	240
-25	45.4	61.0	73.6	95.6	125	150	167	182	194	208	221	231	239	246	250	252	253	253	253
-20	44.0	60.8	77.9	103	142	158	171	189	204	218	231	242	251	258	262	265	266	267	267
-15	38.7	63.4	92.8	114	143	161	176	193	208	223	236	248	257	264	269	272	274	275	275
-10	33.4	66.1	108	125	144	165	181	197	213	228	242	254	264	271	276	280	282	283	283
-5	43.6	78.8	109	127	147	166	183	199	215	230	244	256	267	274	280	283	286	286	286
0	53.9	91.6	111	130	151	168	184	201	217	232	246	259	269	277	283	287	289	290	290
5	64.4	94.0	111	130	150	167	184	200	216	232	246	259	269	277	283	287	289	290	289
10	75.0	96.4	111	129	149	166	183	199	215	231	245	258	269	277	282	286	288	289	289
15	75.3	96.1	111	128	148	165	181	197	213	228	242	255	265	272	278	281	283	283	283
20	75.5	95.8	110	127	147	164	179	195	211	226	239	251	261	268	273	276	277	277	277
25	75.5	95.1	109	125	144	161	176	191	206	220	232	243	252	258	262	265	265	265	265
30	75.4	94.5	107	123	141	157	172	187	201	214	225	235	243	248	252	253	254	254	253
35	75.3	93.6	106	121	138	153	168	181	194	206	216	224	230	235	237	238	238	237	237
40	75.2	92.8	104	118	134	149	163	176	188	197	206	213	218	221	223	223	222	221	220
45	75.1	91.7	102	115	129	144	157	168	178	187	193	199	203	205	205	204	202	201	200
50	75.1	90.7	100.0	112	124	138	150	161	169	176	181	185	187	188	187	185	182	180	179
55	74.9	89.5	97.7	108	119	131	143	153	160	164	167	169	169	167	164	161	158	155	153
60	74.7	88.3	95.5	104	114	124	135	145	150	153	154	153	150	146	142	137	133	129	128
65	75.0	87.1	93.3	101	109	117	126	134	139	140	138	135	130	124	118	112	106	102	99.8
70	75.2	85.9	91.2	97.3	104	110	117	124	128	127	122	116	109	102	94.0	85.9	79.0	74.0	71.7
75	75.2	84.0	88.7	93.7	98.5	103	108	112	114	111	105	99.1	91.5	82.6	73.1	63.6	55.4	49.6	47.0
80	75.2	82.0	86.2	90.1	93.5	96.7	99.8	101	99.4	94.8	88.6	81.9	73.7	63.6	52.2	41.2	31.8	25.2	22.3
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
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2024-05-02

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:277.1V I:0.1330A P:33.48W PF:0.9084 Lamp Flux:1006.96x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500006
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	1.72	9.22	19.6	31.6	43.9	55.9	67.1	77.6	87.0	90.2	90.6	94.3	93.0	89.8	86.8	86.1	86.5	86.7
-75	21.0	27.4	36.7	47.8	59.3	70.4	80.8	90.5	98.9	102	99.9	102	102	98.0	93.3	90.1	88.3	86.6
-70	40.3	45.6	53.8	63.9	74.7	85.0	94.6	103	111	114	109	110	110	106	99.7	94.2	90.0	86.4
-65	65.6	69.9	77.0	85.7	94.5	103	112	119	125	128	121	117	115	111	104	96.8	91.3	86.4
-60	90.9	94.3	100	108	114	121	128	135	139	142	133	123	120	115	108	99.4	92.5	86.3
-55	118	121	125	131	136	142	147	151	154	154	146	132	123	118	110	101	92.3	85.7
-50	146	147	150	153	158	162	166	168	168	165	159	140	127	121	112	103	92.1	85.2
-45	172	173	175	177	180	182	183	182	179	175	168	153	133	121	113	103	91.9	83.6
-40	198	198	200	201	203	202	200	196	191	184	176	165	140	122	114	104	91.6	81.9
-35	219	219	219	219	218	216	212	207	201	193	183	172	153	130	113	103	91.0	79.1
-30	239	239	237	236	233	230	225	218	210	201	191	179	166	138	111	102	90.4	76.3
-25	253	251	250	247	244	240	234	226	218	207	196	183	169	148	123	101	86.4	71.3
-20	266	264	262	259	255	250	243	235	225	214	201	187	172	157	134	101	82.4	66.2
-15	274	272	269	266	261	256	248	240	230	218	205	190	175	159	140	115	87.7	58.2
-10	282	280	277	273	268	262	254	245	234	222	209	194	178	161	146	130	93.0	50.2
-5	285	283	280	276	271	264	256	247	236	224	210	195	179	162	146	130	104	71.9
0	289	287	283	279	274	267	259	249	238	225	211	196	179	163	146	130	115	93.5
5	288	286	283	278	273	267	259	249	238	225	211	195	179	162	146	130	115	96.8
10	288	286	282	278	273	266	258	249	238	225	211	195	179	162	146	130	115	100
15	282	280	276	272	268	261	254	245	234	221	208	192	176	160	144	129	114	99.8
20	275	273	270	267	262	257	249	241	230	218	205	190	174	158	143	127	113	99.5
25	264	262	259	256	252	247	241	233	224	213	200	186	171	156	141	127	113	99.4
30	252	250	248	245	242	238	233	226	218	208	196	183	169	154	140	126	112	99.3
35	236	234	233	231	229	226	221	216	208	200	189	177	164	150	137	124	111	98.9
40	219	218	217	217	215	213	210	205	199	191	182	172	159	147	134	122	110	98.4
45	199	198	199	199	199	198	196	193	188	182	174	165	154	142	131	119	108	97.9
50	179	179	180	182	183	183	182	180	177	172	166	158	148	138	127	117	107	97.4
55	154	155	158	161	164	166	167	167	165	162	157	151	142	133	124	115	106	97.2
60	129	131	135	140	144	149	152	153	153	152	148	143	136	128	120	112	104	97.0
65	101	104	110	116	123	129	135	139	141	141	140	136	130	124	117	110	104	97.1
70	73.3	77.4	84.0	92.5	101	110	118	125	129	131	131	129	124	119	114	108	103	97.2
75	48.9	54.1	62.1	72.2	82.6	92.5	102	110	116	120	122	121	117	113	109	105	101	96.7
80	24.5	30.7	40.3	51.9	63.9	75.3	85.8	95.3	104	110	113	113	111	108	105	102	99.2	96.1
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:2024-05-02

$V(\beta)$ 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: