

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	286.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	151.6V x 180.0H
	At 50% of Imax	107.1V x 147.5H
	At 90% of Imax	50.3V x 68.4H

Beam Flux	Total	995.7 lumens per klm.
	To 10% of Imax	992.2 lumens per klm.
	To 50% of Imax	795.7 lumens per klm.
	To 90% of Imax	231.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.6 %

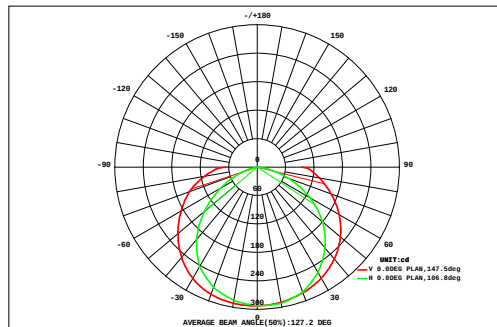
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:120.0V I:0.2909A P:34.69W PF:0.9937 Lamp Flux:1019.67x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:29.39lm/W	
MODEL: LLS-OP-D50-L12-RDM(AL)		Imax(cd)	292.4
NOMINAL POWER(W)	34	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1018
NOMINAL FLUX(lm)	1019.67	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1020
TEST VOLTAGE(V)	120.0	θ @50%(H,V)	148, 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	0.90	1.61	2.32	2.79	2.87	2.58	2.02	1.53	1.51	2.01	2.64	3.04	3.08	2.67	1.92	1.11	0.35	35.2	35.1
70	0.23	0.79	1.50	2.33	3.00	3.32	3.39	3.27	3.09	3.07	3.25	3.43	3.44	3.13	2.52	1.74	0.96	0.29	42.8	42.8
60	0.24	0.85	1.69	2.66	3.54	4.21	4.62	4.78	4.76	4.74	4.73	4.61	4.28	3.67	2.84	1.90	1.02	0.30	55.4	55.4
50	0.25	0.91	1.85	2.93	4.02	4.98	5.71	6.09	6.20	6.15	5.97	5.62	5.02	4.17	3.15	2.06	1.08	0.31	66.5	66.5
40	0.26	0.97	1.98	3.16	4.45	5.63	6.55	7.11	7.32	7.28	6.98	6.45	5.66	4.62	3.42	2.19	1.13	0.32	75.5	75.5
30	0.26	1.01	2.07	3.33	4.75	6.11	7.20	7.89	8.19	8.15	7.78	7.11	6.16	4.96	3.61	2.29	1.17	0.32	82.3	82.3
20	0.27	1.03	2.13	3.45	4.93	6.40	7.60	8.38	8.73	8.69	8.29	7.54	6.47	5.16	3.73	2.35	1.19	0.33	86.7	86.7
10	0.26	1.04	2.15	3.50	5.00	6.48	7.70	8.51	8.89	8.86	8.45	7.67	6.58	5.24	3.79	2.39	1.20	0.33	88.0	88.0
0	0.24	1.03	2.15	3.49	4.97	6.42	7.62	8.41	8.78	8.75	8.35	7.59	6.51	5.20	3.76	2.38	1.20	0.32	87.2	87.2
-10	0.19	0.95	2.08	3.38	4.82	6.22	7.37	8.11	8.45	8.43	8.05	7.34	6.32	5.06	3.68	2.33	1.17	0.27	84.2	84.2
-20	0.17	0.81	1.93	3.19	4.53	5.82	6.87	7.53	7.82	7.81	7.49	6.88	5.96	4.80	3.51	2.24	1.03	0.24	78.6	78.6
-30	0.17	0.67	1.67	2.91	4.08	5.21	6.10	6.61	6.79	6.77	6.56	6.14	5.42	4.44	3.30	2.05	0.92	0.26	70.1	70.1
-40	0.18	0.62	1.37	2.57	3.61	4.48	5.09	5.33	5.34	5.29	5.23	5.07	4.66	3.96	3.00	1.77	0.92	0.26	58.8	58.8
-50	0.18	0.61	1.19	2.14	3.09	3.60	3.81	3.79	3.67	3.63	3.72	3.79	3.72	3.38	2.61	1.63	0.90	0.26	45.7	45.7
-60	0.18	0.58	1.05	1.77	2.48	2.69	2.62	2.35	2.04	2.01	2.29	2.64	2.81	2.73	2.16	1.51	0.85	0.25	33.0	33.0
-70	0.17	0.54	0.94	1.46	1.87	1.91	1.63	1.12	0.66	0.62	1.07	1.64	2.04	2.15	1.79	1.35	0.76	0.24	21.9	20.9
-80	0.08	0.25	0.43	0.63	0.72	0.67	0.48	0.17	0.01	0.01	0.21	0.55	0.80	0.89	0.77	0.58	0.34	0.12	7.71	7.20
-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	45.2	62.7	77.0	86.9	91.5	92.3	91.8	90.4	86.7	78.9	66.6	50.3	32.7	16.9	4.76	1020	---
Φ a	3.63	13.6	27.8	45.2	62.7	77.0	86.9	91.2	91.8	91.3	90.0	86.7	78.9	66.6	50.3	32.7	16.9	4.76	---	1018

one-half-peak spread: U:50.5,D:57.1 , L:69.0,R:79.3

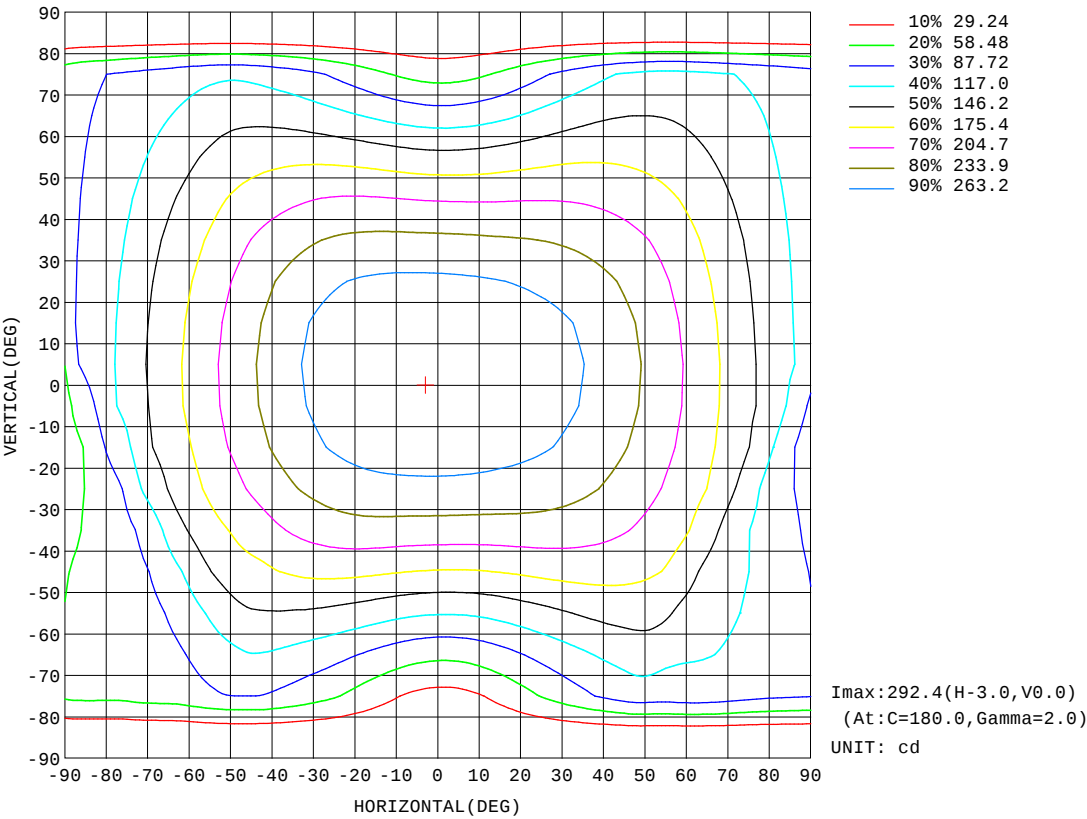
NEMA Beam Type: Type 7

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 G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.2909A P:34.69W PF:0.9937 Lamp Flux:1019.67x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

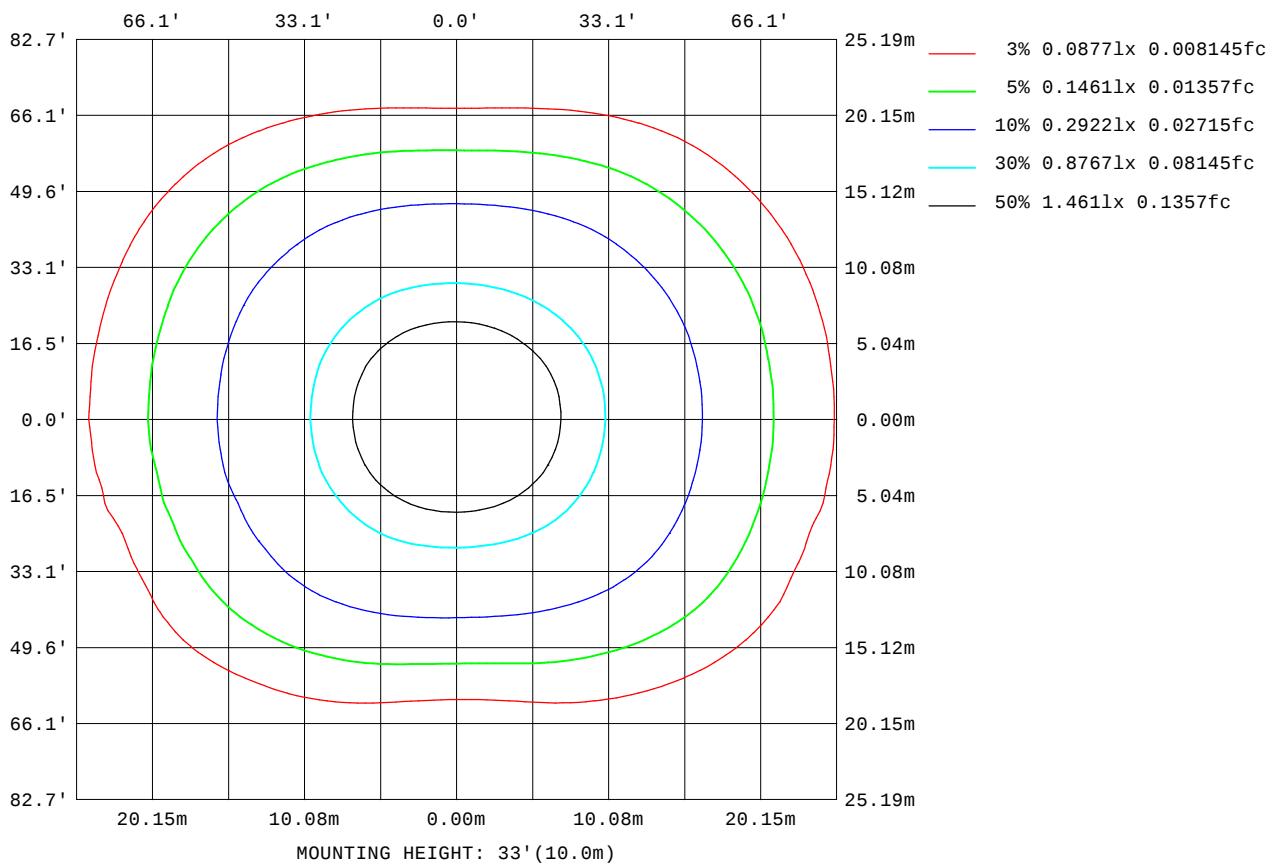


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
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Test Date:2024-05-02

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:120.0V I:0.2909A P:34.69W PF:0.9937 Lamp Flux:1019.67x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

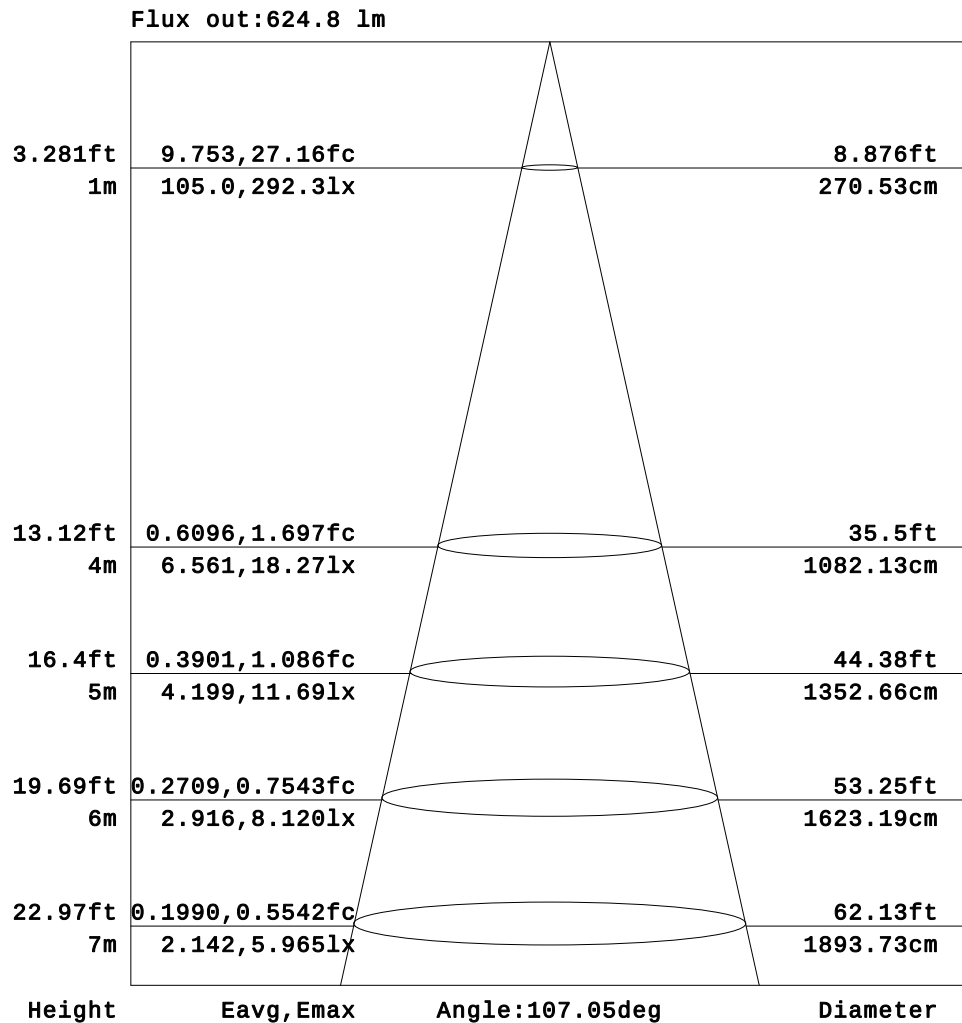


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-05-02

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:120.0V I:0.2909A P:34.69W PF:0.9937 Lamp Flux:1019.67x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

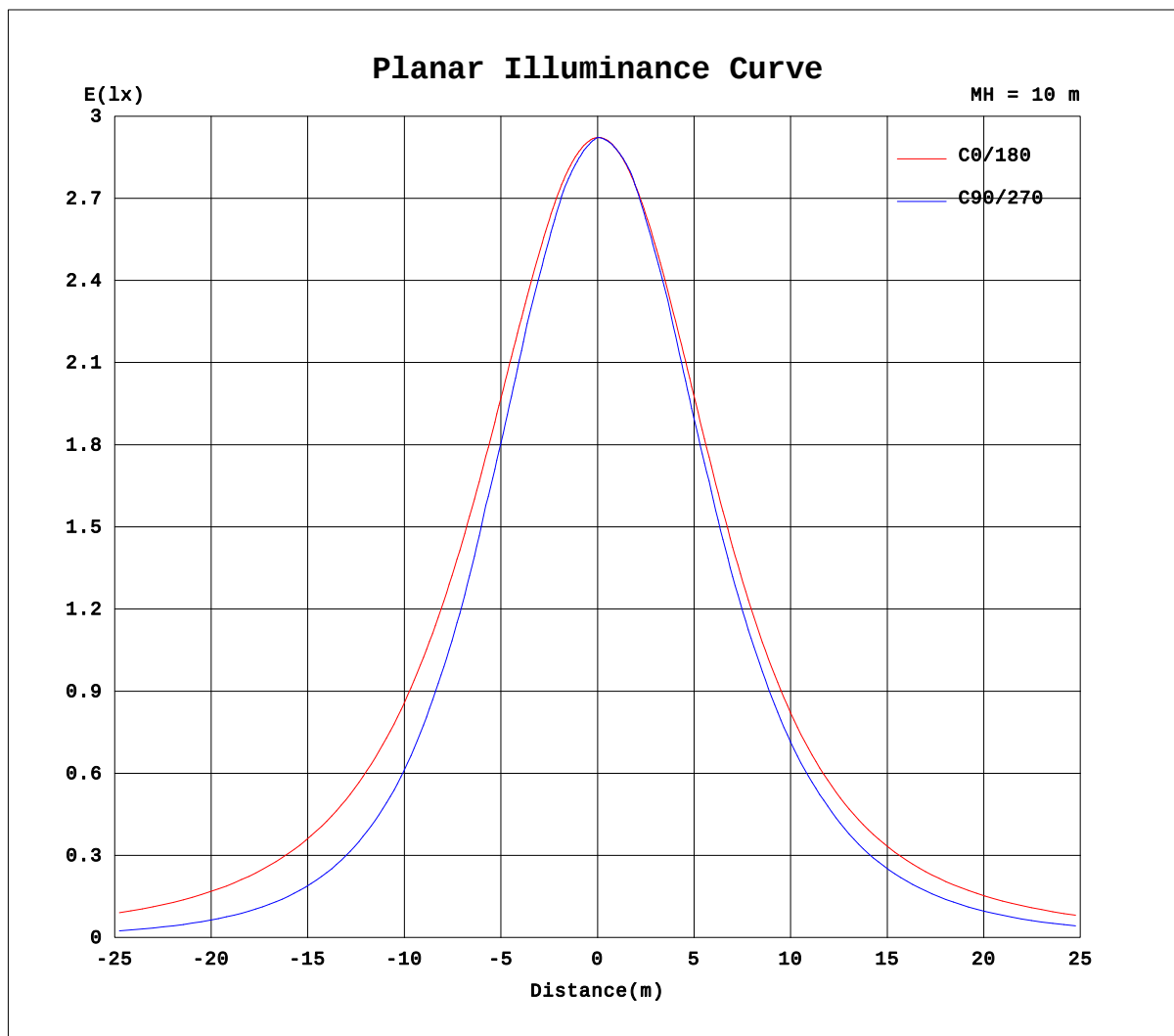


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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
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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:120.0V I:0.2909A P:34.69W PF:0.9937 Lamp Flux:1019.67x1 lm		
NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
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	64.6	64.6	63.6	64.2	66.4	68.3	71.8	76.0	76.8	74.7	69.2	62.0	53.7	44.0	32.3	20.8	10.2	2.30	0.00
-75	63.3	65.7	65.3	66.7	70.3	71.8	76.4	83.4	87.6	87.8	84.8	78.1	70.1	61.5	50.9	40.4	30.8	23.2	19.7
-70	64.2	66.9	66.8	71.5	75.1	75.9	84.1	93.0	98.4	101	97.8	91.3	83.3	74.9	65.2	56.0	47.9	41.8	39.2
-65	61.8	67.2	68.0	72.6	76.6	79.5	89.5	101	110	116	114	109	103	96.5	89.0	81.2	73.7	68.0	65.2
-60	63.8	68.1	69.5	76.1	79.3	86.2	99.4	113	124	131	129	124	120	115	110	103	96.8	92.5	90.9
-55	59.8	66.5	70.0	76.2	80.3	90.1	105	121	135	144	145	144	142	139	134	130	125	121	119
-50	62.0	65.9	73.5	78.2	83.6	99.9	117	135	152	157	161	163	163	160	157	154	151	148	147
-45	55.1	63.3	71.1	77.0	86.7	104	124	145	159	167	173	178	182	183	182	180	177	175	174
-40	54.3	63.4	72.6	78.6	95.9	116	140	162	171	179	188	196	202	206	206	205	203	201	200
-35	48.4	60.8	69.7	81.9	99.5	125	148	166	177	188	198	208	215	220	223	224	223	222	222
-30	48.4	62.5	70.7	90.4	111	146	164	175	187	201	213	222	230	237	240	242	243	243	243
-25	43.8	59.2	72.0	93.9	124	147	165	181	193	208	221	231	240	248	252	255	256	257	257
-20	47.3	62.4	80.9	111	144	158	172	191	206	220	233	244	254	261	265	268	269	270	270
-15	36.7	61.1	89.9	111	141	159	174	191	207	222	235	248	258	266	271	275	277	278	278
-10	38.0	69.1	110	125	147	165	182	198	214	229	243	256	266	274	279	283	285	286	286
-5	38.5	77.3	107	125	145	164	180	197	213	229	243	256	267	275	281	285	288	289	289
0	65.6	94.1	113	133	152	169	185	202	218	234	248	261	271	280	285	289	291	292	292
5	59.5	92.7	109	128	148	165	181	198	214	230	245	258	269	278	284	288	291	292	292
10	80.2	97.3	112	132	150	167	184	200	217	233	247	260	271	279	285	289	291	292	292
15	73.1	94.4	109	127	146	163	179	195	211	227	241	254	265	274	280	283	286	286	286
20	80.5	96.6	111	130	148	164	180	196	212	227	241	253	264	271	276	279	281	281	281
25	73.5	93.3	107	124	142	158	173	189	204	219	232	243	253	260	265	268	269	269	269
30	79.8	94.9	109	125	143	158	173	187	202	216	228	238	245	251	255	257	257	257	257
35	73.6	91.9	104	119	136	151	165	179	193	205	216	225	232	237	240	241	241	241	240
40	79.5	93.2	105	120	136	150	163	176	189	199	208	215	220	224	225	226	225	224	223
45	73.8	90.2	101	113	128	142	154	166	177	186	193	199	204	206	207	206	205	203	202
50	78.7	90.9	101	112	125	139	150	161	170	177	182	186	189	189	189	187	184	182	181
55	73.9	88.0	96.2	106	117	130	141	151	159	164	167	169	169	168	166	163	159	157	155
60	78.0	88.3	95.6	105	114	125	136	145	150	153	154	153	150	146	142	138	133	130	129
65	74.4	85.9	92.0	99.3	107	116	125	133	138	139	138	135	130	124	119	113	107	103	101
70	77.7	85.9	91.0	97.0	103	110	117	124	128	126	121	115	108	101	93.5	85.5	78.8	73.9	72.1
75	75.1	83.2	87.6	92.3	97.1	102	107	111	113	111	106	100.0	92.4	83.7	74.3	64.7	56.3	50.1	47.1
80	76.8	82.5	86.0	89.5	92.8	96.0	99.0	99.7	98.2	94.3	88.6	81.9	73.1	62.6	51.2	40.3	31.0	24.4	21.9
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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 Operators:QC1
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V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:83%
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 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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NAME: 8.02.039.0013 LLS-OP-D50-L12-RDM(AL)	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:20240500001
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	2.43	10.8	21.8	34.2	46.8	58.9	70.2	80.7	90.1	91.8	93.6	96.6	95.2	91.8	89.1	88.3	88.7	88.9
-75	20.8	27.3	36.8	48.0	59.8	71.2	81.9	91.7	101	104	102	105	104	101	96.1	92.8	90.8	89.0
-70	41.1	47.2	56.0	66.5	77.5	87.9	97.6	106	114	116	112	113	113	108	102	96.5	92.1	88.4
-65	65.9	70.3	77.5	86.4	95.5	104	113	121	127	131	124	120	118	114	107	100	94.2	89.3
-60	91.9	95.9	102	110	117	124	132	138	142	145	134	126	122	117	110	101	94.5	88.0
-55	119	122	126	132	137	143	149	154	157	157	151	137	127	121	114	105	95.7	89.1
-50	147	149	152	156	160	165	169	171	172	169	162	142	130	123	114	105	94.1	87.0
-45	173	174	176	179	182	185	186	186	184	180	173	159	139	125	117	107	96.0	87.0
-40	200	200	202	204	206	206	204	200	195	189	180	167	141	124	116	105	93.1	83.6
-35	221	221	221	222	222	220	217	213	207	199	189	178	159	136	118	107	95.3	82.5
-30	243	242	241	240	237	234	229	223	215	205	194	182	168	139	114	104	91.6	77.7
-25	256	255	254	252	249	245	239	232	224	214	202	189	175	154	130	107	90.3	75.2
-20	270	268	266	263	259	254	247	239	229	217	205	191	176	160	135	101	84.0	66.2
-15	277	276	273	270	266	261	254	246	236	224	211	197	182	166	147	122	93.9	64.5
-10	285	283	280	276	271	265	258	249	238	226	212	197	181	165	149	132	93.5	47.0
-5	288	287	284	280	275	269	262	253	242	230	216	201	185	169	152	136	111	80.5
0	291	289	286	282	277	270	262	253	242	229	215	199	183	166	149	133	118	94.1
5	291	290	287	283	278	271	264	255	244	232	218	202	186	169	152	136	120	104
10	291	289	286	282	276	270	262	253	241	229	214	199	182	165	149	132	117	102
15	285	284	281	277	273	267	260	251	240	228	214	199	183	167	150	135	119	105
20	279	278	275	271	267	261	254	245	234	222	208	193	178	162	146	130	116	102
25	268	266	264	261	257	253	247	240	231	220	207	193	178	163	147	132	118	105
30	256	254	252	250	247	243	237	231	223	212	201	187	173	158	143	129	115	102
35	239	238	237	235	234	231	227	222	215	206	196	184	171	157	143	129	116	104
40	222	221	221	221	220	218	215	210	204	197	187	176	163	150	137	125	113	101
45	202	202	202	203	203	203	201	198	194	188	181	171	160	148	136	125	114	103
50	181	182	183	185	187	188	187	185	182	177	171	163	152	142	131	120	110	100
55	155	157	160	163	166	170	171	172	171	168	163	157	148	139	129	120	111	102
60	130	133	137	142	147	153	156	158	158	156	153	148	140	132	124	116	108	100
65	102	105	111	117	124	132	138	143	146	146	145	141	135	129	122	115	108	102
70	74.1	79.0	86.1	95.2	104	113	122	129	133	136	136	133	128	123	117	112	106	101
75	48.7	54.1	62.3	72.7	83.6	93.9	104	113	120	124	127	125	122	118	114	110	106	101
80	24.9	32.0	42.4	54.5	66.9	78.7	89.5	99.3	108	115	118	117	115	112	109	106	103	99.8
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:2024-05-02

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: