

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

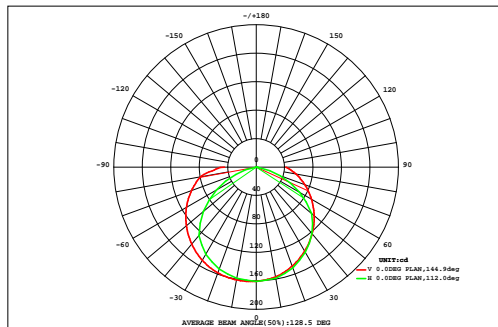
Maximum Intensity (Luminaire orientation as tested.)		289.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	152.8V x 180.0H 113.0V x 144.9H 53.2V x 59.4H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	995.6 lumens per klm. 992.1 lumens per klm. 794.7 lumens per klm. 204.0 lumens per klm.
	Upward LOR Downward LOR	0.0 % 99.6 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.2075A P:27.29W PF:0.5979 Lamp Flux:555.921x1 lm		
NAME: 8.02.019.0075 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:20.37lm/W	
MODELLS-OP-W30A-L12-RDM	Imax(cd)	161.2	
NOMINAL POWER(W)	28	AVAILABILITY(%)	99.8
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	554.9
NOMINAL FLUX(lm)	555.921	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	555.9
TEST VOLTAGE(V)	220.0	θ @50%(H,V)	145,113DEG

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	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	0.00
80	0.18	0.59	1.09	1.56	1.77	1.71	1.44	1.02	0.62	0.54	0.77	1.05	1.23	1.25	1.09	0.78	0.44	0.14	17.2	16.9	
70	0.15	0.57	1.02	1.48	1.82	1.97	1.96	1.83	1.67	1.60	1.60	1.61	1.54	1.36	1.07	0.73	0.40	0.12	22.5	22.5	
60	0.16	0.60	1.10	1.64	2.11	2.47	2.66	2.71	2.67	2.59	2.47	2.29	2.01	1.63	1.22	0.80	0.42	0.12	29.7	29.7	
50	0.17	0.63	1.18	1.79	2.36	2.84	3.21	3.42	3.47	3.39	3.17	2.82	2.38	1.88	1.37	0.88	0.45	0.13	35.5	35.5	
40	0.18	0.66	1.25	1.92	2.58	3.16	3.61	3.89	3.99	3.91	3.64	3.22	2.69	2.10	1.50	0.94	0.48	0.13	39.9	39.9	
30	0.18	0.68	1.30	2.02	2.75	3.41	3.94	4.28	4.42	4.35	4.05	3.56	2.95	2.28	1.61	0.99	0.50	0.13	43.4	43.4	
20	0.18	0.69	1.34	2.08	2.86	3.58	4.17	4.56	4.72	4.66	4.34	3.80	3.13	2.40	1.67	1.03	0.51	0.13	45.9	45.9	
10	0.18	0.70	1.35	2.11	2.90	3.65	4.28	4.69	4.87	4.81	4.48	3.92	3.23	2.46	1.72	1.05	0.52	0.14	47.1	47.1	
0	0.18	0.69	1.34	2.09	2.89	3.64	4.26	4.68	4.86	4.80	4.48	3.92	3.22	2.46	1.72	1.05	0.52	0.13	46.9	46.9	
-10	0.14	0.65	1.29	2.02	2.80	3.54	4.15	4.57	4.74	4.68	4.37	3.83	3.15	2.41	1.69	1.04	0.51	0.12	45.7	45.7	
-20	0.10	0.56	1.25	1.97	2.67	3.33	3.90	4.31	4.49	4.44	4.14	3.63	2.99	2.30	1.61	1.00	0.46	0.09	43.3	43.3	
-30	0.09	0.43	1.09	1.84	2.51	3.12	3.60	3.92	4.10	4.04	3.78	3.33	2.76	2.13	1.52	0.93	0.39	0.10	39.7	39.7	
-40	0.10	0.38	0.91	1.64	2.27	2.79	3.17	3.37	3.45	3.39	3.19	2.87	2.43	1.92	1.39	0.80	0.37	0.11	34.6	34.6	
-50	0.10	0.35	0.78	1.40	1.99	2.34	2.51	2.53	2.50	2.44	2.35	2.21	1.99	1.66	1.22	0.71	0.38	0.11	27.6	27.6	
-60	0.10	0.34	0.68	1.17	1.67	1.80	1.77	1.65	1.51	1.45	1.48	1.51	1.47	1.34	1.01	0.65	0.36	0.10	20.1	20.1	
-70	0.10	0.32	0.60	0.98	1.30	1.30	1.10	0.81	0.54	0.49	0.66	0.86	1.00	1.01	0.81	0.58	0.32	0.10	12.9	12.5	
-80	0.05	0.15	0.28	0.42	0.52	0.48	0.33	0.12	0.01	0.00	0.07	0.22	0.34	0.39	0.34	0.26	0.14	0.05	4.16	3.88	
-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	0.00
Φ t	2.37	8.98	17.8	28.1	37.8	45.1	50.0	52.4	52.6	51.6	49.0	44.7	38.5	31.0	22.6	14.2	7.15	1.94	556	---	
Φ a	2.37	8.98	17.8	28.1	37.8	45.1	50.0	52.2	52.4	51.3	48.8	44.6	38.5	31.0	22.6	14.2	7.15	1.94	---	555	

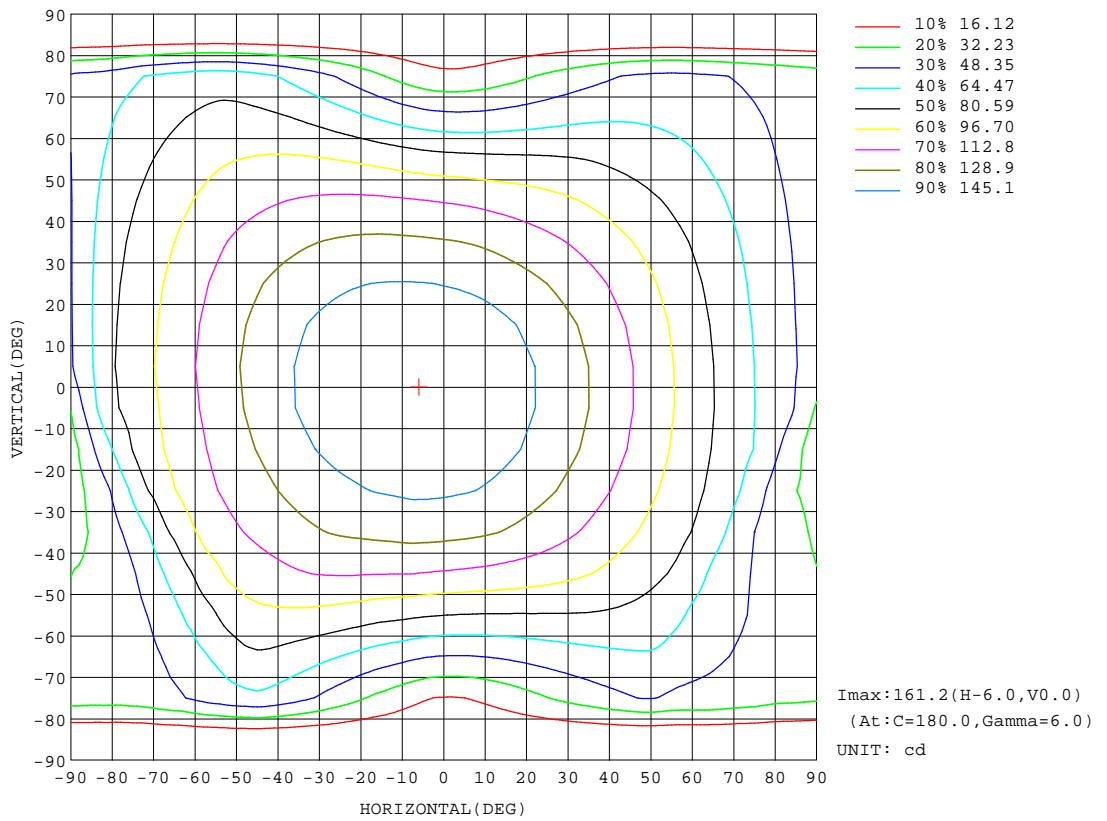
one-half-peak spread: U:55.8,D:57.6 , L:74.0,R:71.8 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.0V I:0.2075A P:27.29W PF:0.5979 Lamp Flux:555.921x1 lm		
NAME: 8.02.019.0075 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

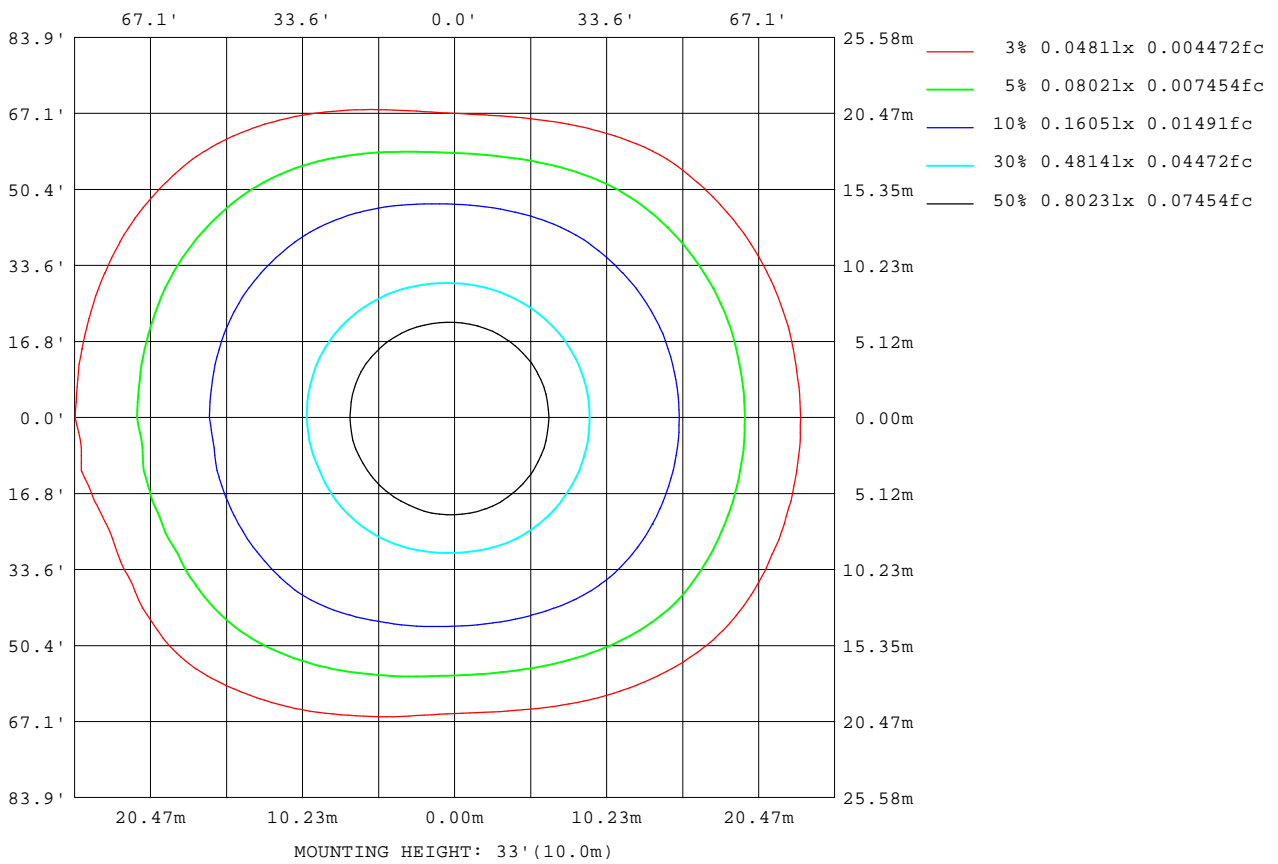


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Test Date:2024-01-25

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V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.0V I:0.2075A P:27.29W PF:0.5979 Lamp Flux:555.921x1 lm		
NAME: 8.02.019.0075 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

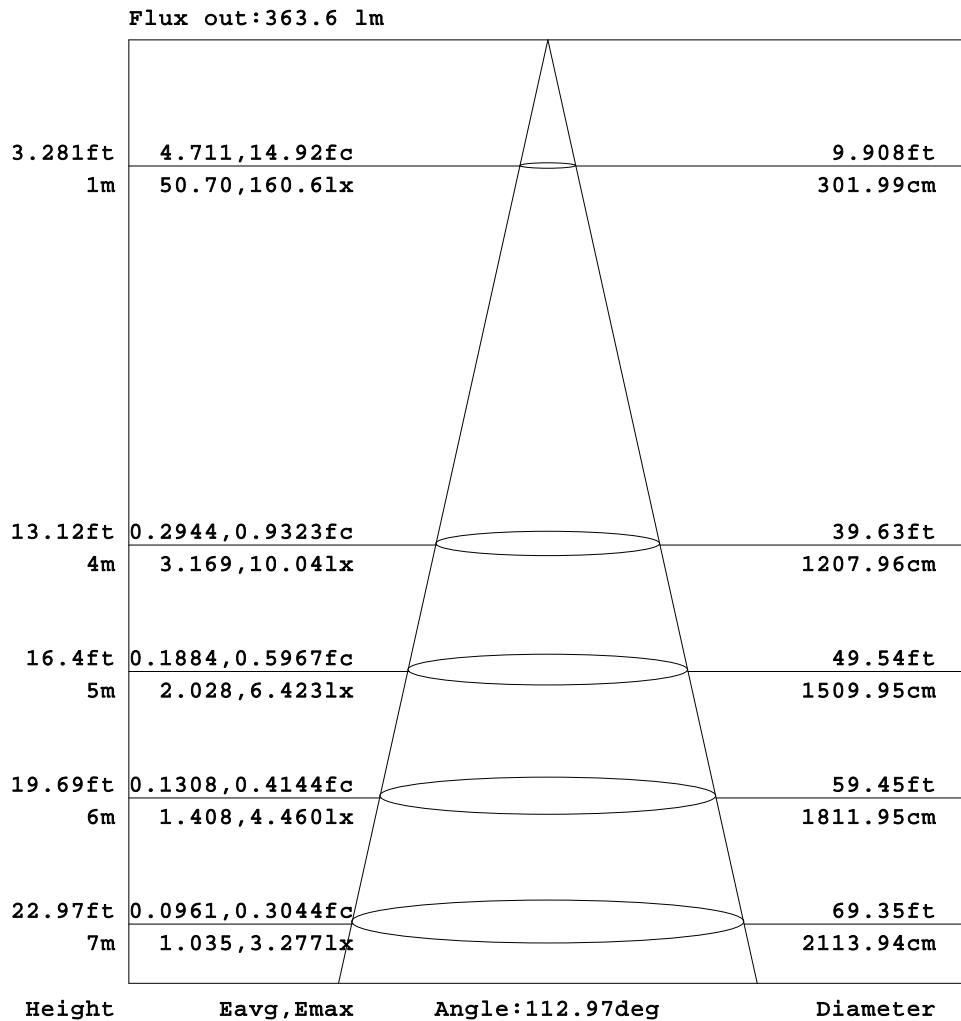


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.0V I:0.2075A P:27.29W PF:0.5979 Lamp Flux:555.92lx1 lm		
NAME: 8.02.019.0075 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

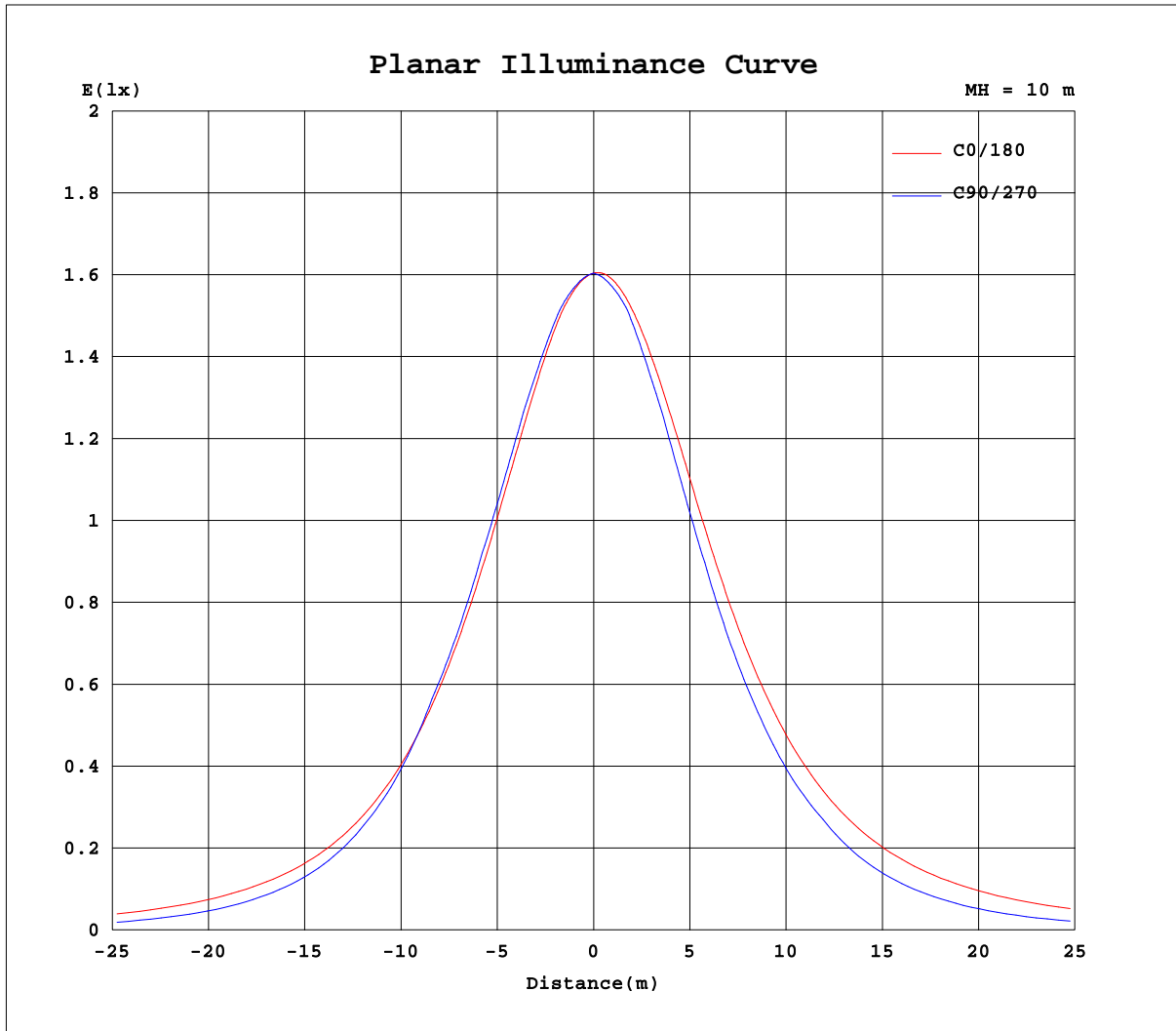


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



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 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
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 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.2075A P:27.29W PF:0.5979 Lamp Flux:555.921x1 lm		
NAME: 8.02.019.0075 LLS-OP-W30A-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024010105
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

H(DEG) V(DEG)	-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	39.4	39.0	38.6	38.8	41.0	44.4	47.2	51.4	52.6	53.3	49.6	43.5	36.6	29.3	21.8	15.0	8.18	2.39	0.00
-75	39.4	39.3	39.2	40.1	42.7	46.3	51.1	56.0	59.7	61.6	58.3	52.8	46.7	40.3	33.8	28.0	22.5	17.6	15.5
-70	39.4	39.5	39.7	41.5	44.4	48.3	55.0	60.6	66.8	69.9	67.0	62.2	56.9	51.3	45.8	41.1	36.8	32.9	30.9
-65	38.9	39.0	39.8	42.4	46.2	51.9	59.9	66.8	74.2	78.2	76.2	72.6	68.5	64.3	60.0	56.1	52.7	49.5	47.8
-60	38.3	38.4	39.8	43.3	47.9	55.6	64.9	73.1	81.7	86.5	85.5	82.9	80.1	77.3	74.2	71.0	68.7	66.1	64.7
-55	37.3	37.1	39.8	44.1	50.8	60.3	70.1	79.9	88.7	92.9	93.8	93.5	92.3	90.4	88.1	85.6	84.1	82.1	80.7
-50	36.2	35.9	39.8	44.8	53.7	65.0	75.3	86.8	95.6	99.2	102	104	105	104	102	100	99.5	98.0	96.8
-45	31.8	34.0	40.0	47.0	58.0	69.9	82.4	93.4	101	105	109	112	113	114	114	113	113	112	111
-40	27.4	32.2	40.3	49.2	62.3	74.8	89.6	100	107	111	115	119	122	124	125	126	127	127	126
-35	25.0	33.2	42.7	53.8	68.0	83.1	96.2	105	111	116	121	125	128	130	132	133	134	135	134
-30	22.6	34.2	45.2	58.4	73.7	91.4	103	109	115	121	126	130	134	137	138	140	142	143	142
-25	22.8	36.3	50.0	68.4	83.3	96.1	105	112	118	124	129	134	138	141	144	146	147	148	147
-20	23.0	38.4	54.9	78.5	93.0	101	108	115	122	127	132	137	142	146	150	152	153	153	152
-15	22.2	45.4	64.5	81.5	92.7	101	109	116	123	129	136	141	146	150	153	155	156	156	155
-10	21.5	52.4	74.2	84.6	92.4	101	109	117	125	132	139	145	150	153	156	158	159	159	159
-5	33.1	57.4	77.0	86.4	94.6	103	111	119	127	134	140	146	151	154	157	159	160	160	159
0	44.8	62.5	79.8	88.3	96.8	105	113	121	128	135	141	147	151	155	158	160	161	161	160
5	45.8	62.9	79.4	87.9	96.3	105	113	120	128	135	141	146	151	155	157	159	160	160	159
10	46.8	63.2	79.0	87.4	95.8	104	112	120	127	134	140	146	150	154	157	158	159	159	159
15	47.1	63.6	78.6	86.9	95.2	103	111	119	126	132	138	143	148	151	153	155	155	155	155
20	47.3	64.0	78.3	86.4	94.5	102	110	118	124	131	136	141	145	148	150	151	152	152	151
25	47.5	63.3	77.5	85.3	93.1	101	108	115	122	127	132	137	140	143	144	145	146	145	144
30	47.7	62.5	76.7	84.3	91.7	99.0	106	113	119	124	128	132	135	137	139	140	140	139	138
35	47.7	61.7	75.8	82.8	89.8	96.7	103	110	115	120	123	126	129	131	132	132	132	131	130
40	47.7	61.0	74.8	81.3	87.9	94.4	101	107	111	115	118	121	123	124	124	125	124	123	122
45	47.8	59.5	73.4	79.6	85.6	91.5	97.3	102	106	109	112	114	115	116	116	115	114	113	112
50	47.9	58.1	72.0	77.8	83.3	88.7	93.8	98.4	102	104	106	107	108	108	107	106	105	103	102
55	48.2	56.7	69.4	75.8	80.6	85.4	90.0	94.0	96.4	97.8	98.6	98.5	97.6	96.1	94.2	92.0	89.7	87.6	86.1
60	48.4	55.3	66.7	73.7	77.9	82.1	86.2	89.6	91.2	91.8	91.6	90.2	87.6	84.5	81.2	77.9	74.7	72.1	70.5
65	49.4	54.5	63.3	70.9	75.3	78.7	82.0	84.7	85.5	84.5	82.4	79.5	75.7	71.4	67.0	62.5	58.4	55.1	53.2
70	50.3	53.7	59.9	68.0	72.8	75.4	77.9	79.9	79.7	77.2	73.3	68.8	63.7	58.3	52.8	47.2	42.2	38.2	36.0
75	50.8	53.2	56.3	61.7	66.3	69.8	72.7	74.1	72.9	69.2	64.4	58.9	52.9	46.5	39.9	33.3	27.2	22.2	19.7
80	51.3	52.7	52.7	55.4	59.8	64.2	67.6	68.2	66.0	61.2	55.4	49.1	42.1	34.7	27.0	19.4	12.1	6.28	3.34
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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DIM.:	SPEC.:	SERIAL No.:2024010105
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	1.00	4.98	10.1	15.7	21.3	26.7	31.7	36.3	40.4	42.0	40.7	42.0	42.2	39.4	37.9	35.7	35.2	34.9
-75	16.1	18.9	22.8	27.3	31.9	36.3	40.4	44.1	47.4	49.0	46.2	45.6	45.0	42.7	40.8	37.5	36.4	34.8
-70	31.1	32.9	35.6	38.9	42.4	45.9	49.1	52.0	54.4	56.0	51.7	49.2	47.9	46.1	43.8	39.4	37.6	34.7
-65	47.7	48.6	50.3	52.5	54.8	57.1	59.1	60.9	62.2	62.7	57.9	52.5	50.1	47.8	45.1	41.1	37.7	34.8
-60	64.2	64.4	65.1	66.1	67.2	68.3	69.2	69.8	70.1	69.3	64.1	55.7	52.4	49.5	46.4	42.8	37.8	34.9
-55	80.1	79.7	79.6	79.6	79.7	79.7	79.4	78.5	76.9	74.6	70.0	61.3	54.4	50.6	47.2	43.3	37.7	34.3
-50	95.9	95.0	94.1	93.2	92.2	91.1	89.6	87.2	83.8	79.8	75.9	66.8	56.4	51.8	48.0	43.7	37.7	33.7
-45	110	109	107	105	103	100	97.2	93.4	89.1	84.4	79.6	72.2	61.3	52.3	47.6	43.4	37.8	32.7
-40	125	123	121	118	114	109	105	99.7	94.4	88.9	83.2	77.5	66.1	52.7	47.2	43.0	38.0	31.7
-35	133	131	128	125	120	115	110	105	98.8	92.7	86.4	80.2	71.0	59.1	48.3	41.6	36.9	30.0
-30	141	139	135	131	127	121	116	110	103	96.5	89.7	82.8	75.8	65.4	49.4	40.2	35.8	28.4
-25	146	144	140	136	131	126	120	113	106	99.3	92.0	84.7	77.3	68.2	56.4	42.9	32.5	25.3
-20	151	149	145	141	136	130	124	117	110	102	94.4	86.6	78.8	70.9	63.5	45.6	29.2	22.3
-15	154	152	148	144	138	133	126	119	112	104	96.0	87.9	79.9	71.8	64.1	51.2	37.1	21.0
-10	157	155	151	147	141	135	128	121	114	106	97.6	89.3	81.0	72.7	64.7	56.9	45.0	19.6
-5	158	156	152	147	142	136	129	122	114	106	97.8	89.5	81.1	72.7	64.7	56.8	47.0	30.6
0	159	157	153	148	143	136	130	122	115	106	98.1	89.7	81.2	72.7	64.7	56.8	48.9	41.5
5	158	156	152	147	142	136	129	122	114	106	97.7	89.3	80.8	72.5	64.4	56.5	48.8	41.3
10	157	155	151	146	141	135	128	121	113	105	97.3	88.9	80.5	72.2	64.2	56.3	48.7	41.2
15	153	151	147	143	138	132	125	118	111	103	95.5	87.4	79.3	71.3	63.5	55.8	48.3	41.0
20	149	147	143	139	134	129	122	116	109	101	93.8	86.0	78.1	70.3	62.7	55.2	47.9	40.9
25	143	141	137	133	129	124	118	112	105	98.7	91.5	84.2	76.7	69.2	61.9	54.8	47.7	40.9
30	137	135	132	128	123	119	114	108	102	95.8	89.2	82.4	75.3	68.1	61.1	54.3	47.5	40.9
35	129	127	124	120	117	112	108	103	97.4	91.7	85.8	79.5	72.9	66.3	59.7	53.3	46.9	40.7
40	121	119	116	113	110	106	102	97.5	92.7	87.7	82.3	76.7	70.6	64.4	58.3	52.2	46.2	40.5
45	111	109	107	104	102	98.5	95.0	91.2	87.2	82.9	78.3	73.3	67.9	62.2	56.6	51.1	45.6	40.3
50	101	99.1	97.5	95.7	93.5	91.0	88.1	85.0	81.7	78.1	74.3	70.0	65.2	60.1	55.0	49.9	44.9	40.0
55	85.2	84.4	83.8	83.2	82.5	81.6	80.1	78.0	75.6	72.9	69.8	66.4	62.2	57.7	53.2	48.7	44.3	39.9
60	69.8	69.6	70.0	70.7	71.5	72.1	72.1	71.0	69.5	67.6	65.4	62.7	59.2	55.2	51.3	47.4	43.6	39.9
65	52.9	53.5	54.9	56.8	58.8	60.7	62.2	62.9	63.1	62.3	61.1	59.2	56.3	53.1	49.8	46.5	43.3	40.1
70	35.9	37.4	39.8	42.9	46.1	49.3	52.2	54.8	56.7	57.0	56.8	55.7	53.5	50.9	48.2	45.6	42.9	40.3
75	20.1	22.7	26.4	30.6	35.0	39.2	43.1	46.7	49.6	51.4	52.2	51.4	49.7	47.8	45.8	43.9	41.9	39.8
80	4.27	7.98	12.9	18.3	23.8	29.1	34.1	38.5	42.5	45.8	47.5	47.1	46.0	44.7	43.5	42.2	40.9	39.4
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(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2024-01-25

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks: