

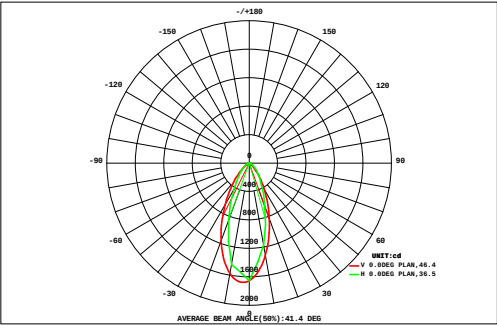
Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		1467.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	87.9V x 87.7H
	At 50% of Imax	36.5V x 46.4H
	At 90% of Imax	12.0V x 17.4H
Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	877.8 lumens per klm.
	To 50% of Imax	410.5 lumens per klm.
	To 90% of Imax	57.4 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.6V I:0.1740A P:22.86W PF:0.5905 Freq:50.00Hz Lamp Flux:1142.62x1 lm		
NAME: 8.02.019.0115 20x40° LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025030097
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:49.98lm/W	
MODELLS-OP-W30B-L12-DIM	Imax(cd)	1677	
NOMINAL POWER(W)	23	AVAILABILITY(%)	88.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1006
NOMINAL FLUX(lm)	1142.62	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	1143
TEST VOLTAGE(V)	220	θ @50%(H,V)	46,37DEG

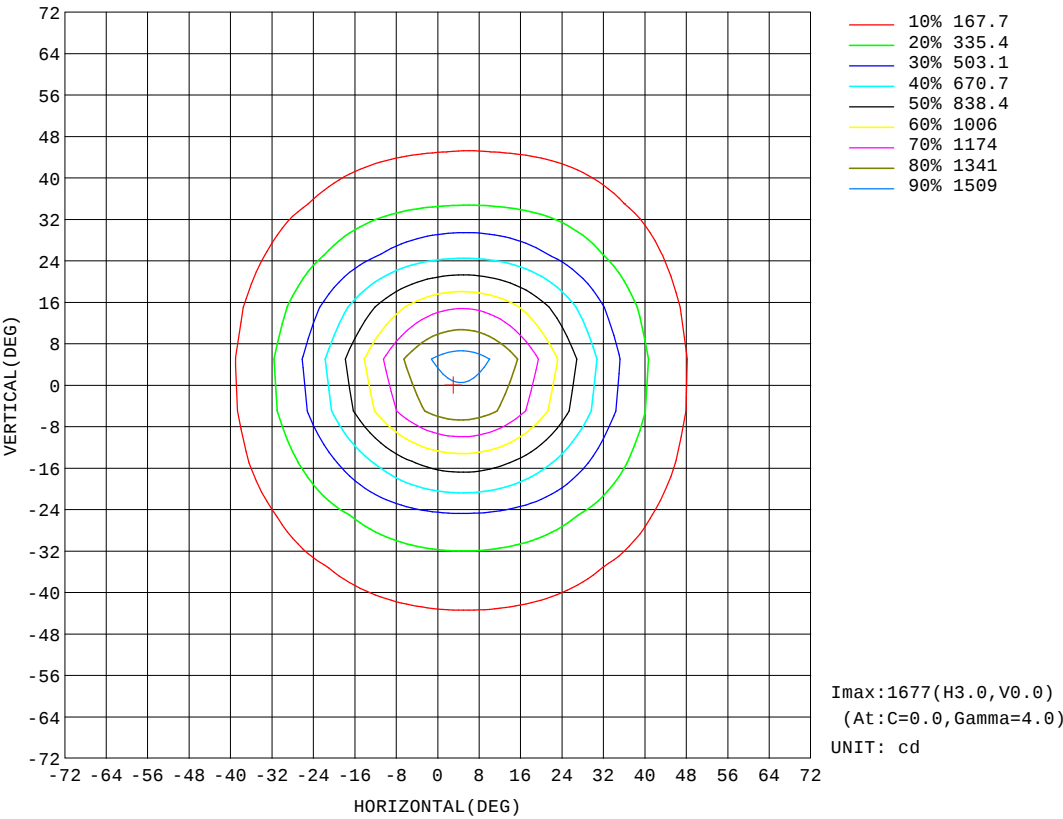
AREA FLUX DIAGRAM																		UNIT:lm	Φ t	Φ a
72	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.26	0.42	0.47	0.40	0.22	0.09	0.02	0.01	0.00	0.00	0.00	1.96	0.00
64	0.00	0.00	0.00	0.00	0.07	0.26	0.51	0.77	0.97	1.04	0.98	0.81	0.58	0.33	0.15	0.04	0.00	0.00	6.50	0.00
56	0.00	0.00	0.01	0.11	0.32	0.70	1.15	1.58	1.89	2.01	1.92	1.66	1.26	0.81	0.43	0.19	0.06	0.00	14.1	0.00
48	0.00	0.00	0.07	0.29	0.70	1.35	2.08	2.75	3.21	3.38	3.25	2.84	2.21	1.48	0.81	0.37	0.14	0.02	25.0	8.67
40	0.00	0.03	0.20	0.56	1.26	2.32	3.50	4.56	5.30	5.58	5.33	4.61	3.55	2.36	1.27	0.55	0.21	0.05	41.2	32.4
32	0.00	0.08	0.33	0.85	1.95	3.66	5.60	7.50	8.92	9.45	8.92	7.48	5.50	3.55	1.87	0.78	0.29	0.08	66.8	60.7
24	0.01	0.13	0.44	1.15	2.78	5.40	8.82	12.5	15.4	16.5	15.3	12.2	8.52	5.15	2.59	1.01	0.37	0.10	108	103
	0.01	0.16	0.50	1.35	3.45	7.05	12.2	18.4	23.7	25.8	23.6	18.2	12.0	6.81	3.27	1.25	0.43	0.13	158	154
	0.01	0.17	0.55	1.49	3.88	8.11	14.4	22.2	29.1	31.9	28.8	21.7	13.9	7.69	3.61	1.35	0.46	0.14	190	185
	0.02	0.19	0.58	1.56	3.99	8.23	14.5	22.0	28.5	30.7	27.3	20.4	13.0	7.15	3.36	1.25	0.43	0.12	183	179
	0.01	0.16	0.51	1.34	3.29	6.42	10.6	15.5	19.4	20.9	19.2	15.0	10.1	5.95	2.94	1.15	0.40	0.12	133	128
	0.00	0.11	0.40	1.01	2.37	4.42	6.97	9.58	11.7	12.5	11.8	9.69	7.03	4.45	2.33	0.96	0.35	0.10	85.7	80.3
-24	0.00	0.06	0.28	0.72	1.64	3.04	4.62	6.07	7.13	7.53	7.14	6.10	4.67	3.12	1.70	0.73	0.28	0.07	54.9	48.1
-32	0.00	0.02	0.17	0.48	1.07	1.99	2.96	3.79	4.33	4.51	4.29	3.75	2.96	2.01	1.10	0.49	0.19	0.04	34.1	23.7
-40	0.00	0.00	0.07	0.27	0.65	1.23	1.87	2.44	2.80	2.91	2.78	2.40	1.84	1.19	0.62	0.28	0.10	0.00	21.5	2.46
-48	0.00	0.00	0.00	0.07	0.26	0.59	0.97	1.32	1.59	1.68	1.60	1.36	1.02	0.65	0.33	0.14	0.03	0.00	11.6	0.00
-56	0.00	0.00	0.00	0.01	0.03	0.14	0.34	0.58	0.77	0.84	0.77	0.61	0.42	0.24	0.11	0.03	0.01	0.00	4.91	0.00
-64	0.00	0.00	0.00	0.00	0.00	0.02	0.05	0.12	0.23	0.28	0.26	0.14	0.07	0.04	0.02	0.00	0.00	0.00	1.23	0.00
-72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL(DEG)	16	24	32	40	48	56	64	72			
Φ t	0.07	1.12	4.11	11.3	27.7	54.9	91.3	132	165	178	163	129	88.7	53.0	26.5	10.6	3.74	0.98	1142	---
Φ a	0.00	0.00	0.00	0.29	16.3	45.3	82.0	123	156	169	154	121	79.8	44.3	15.8	0.11	0.00	0.00	---	1006

one-half-peak spread: U:16.3,D:20.5 , L:22.9,R:23.8 NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:28.0DEG
 Operators:QC1
 Test Date:2025-03-31
 V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.6V I:0.1740A P:22.86W PF:0.5905 Freq:50.00Hz Lamp Flux:1142.62x1 lm		
NAME: 8.02.019.0115 20x40° LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025030097
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:

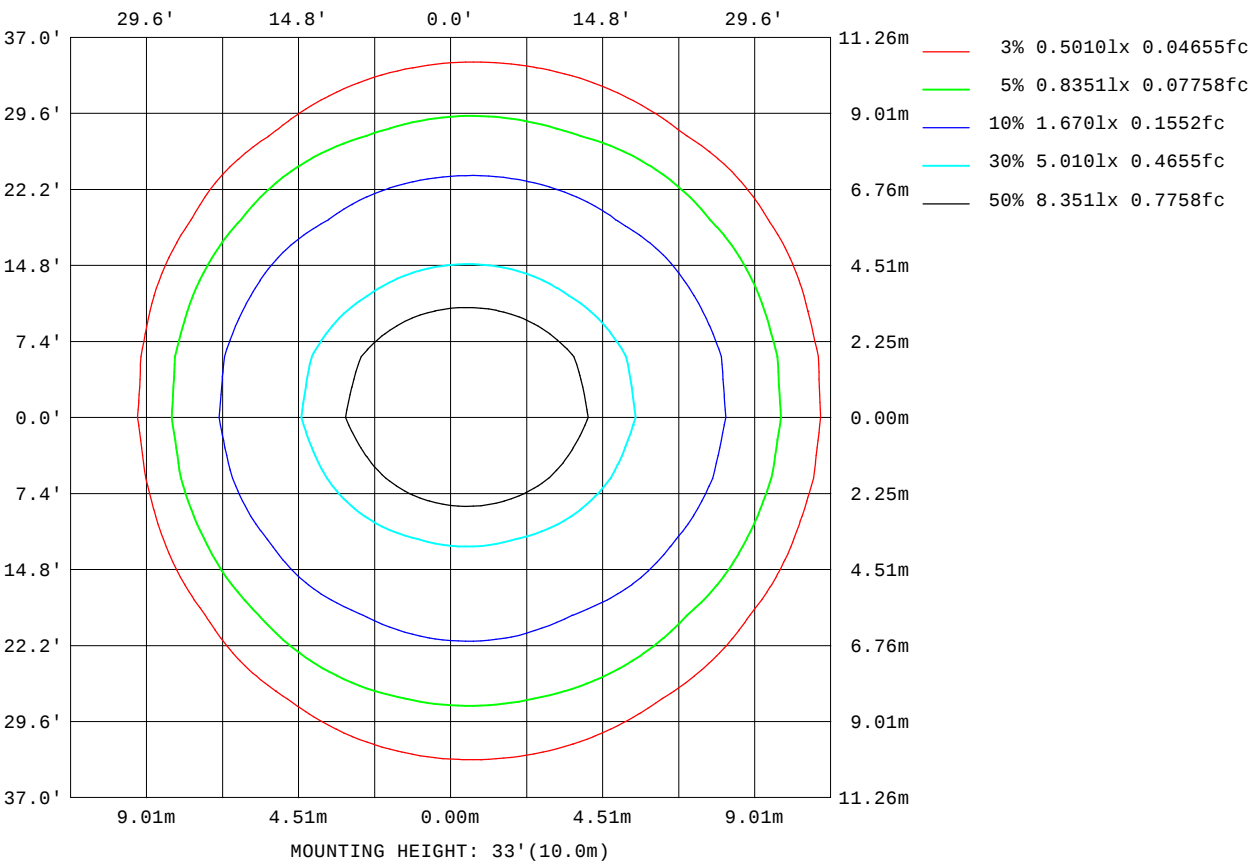


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-03-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

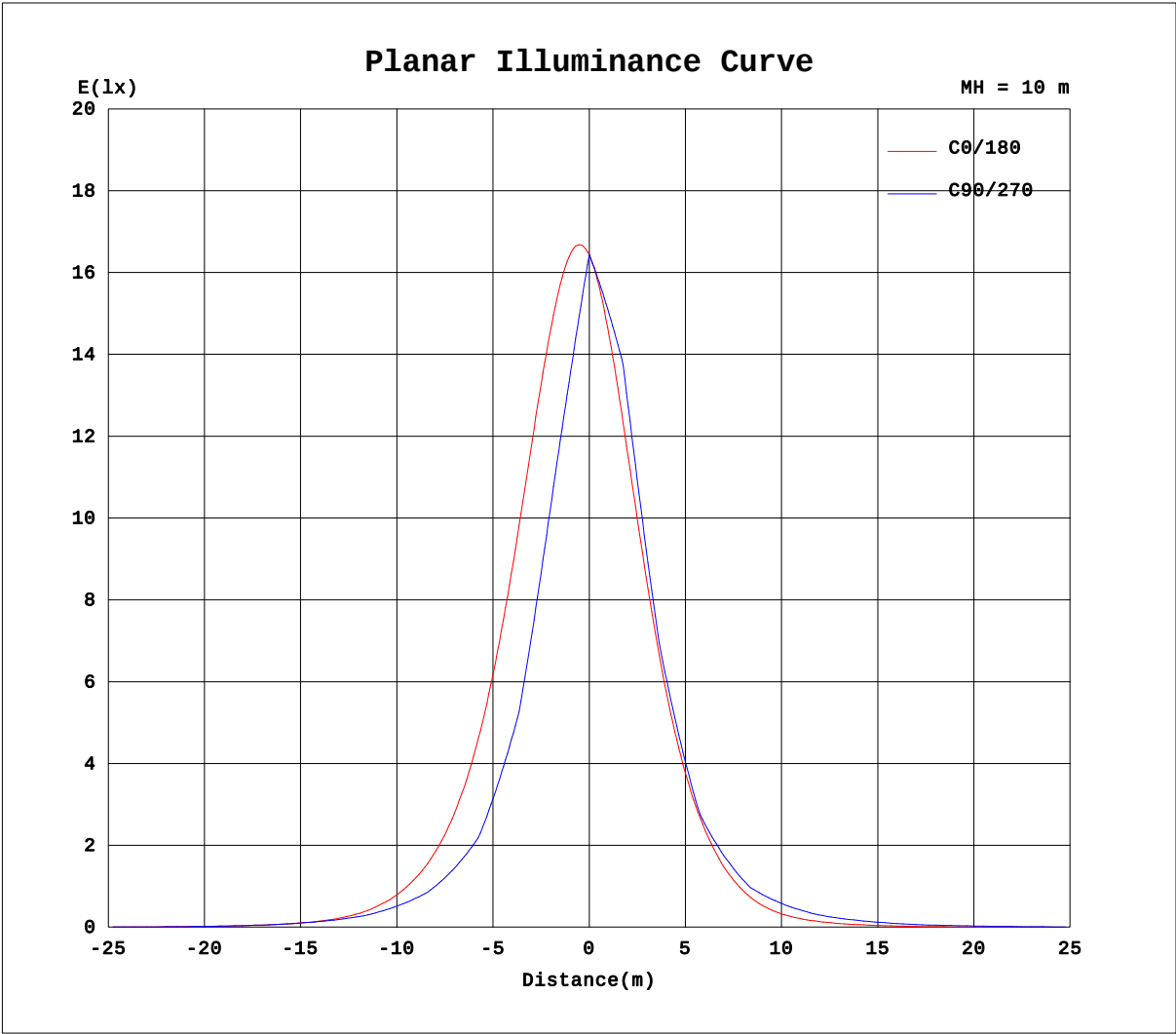
Test:U:220.6V I:0.1740A P:22.86W PF:0.5905 Freq:50.00Hz Lamp Flux:1142.62x1 lm		
NAME: 8.02.019.0115 20x40° LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025030097
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding Angle:



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Test Date:2025-03-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve

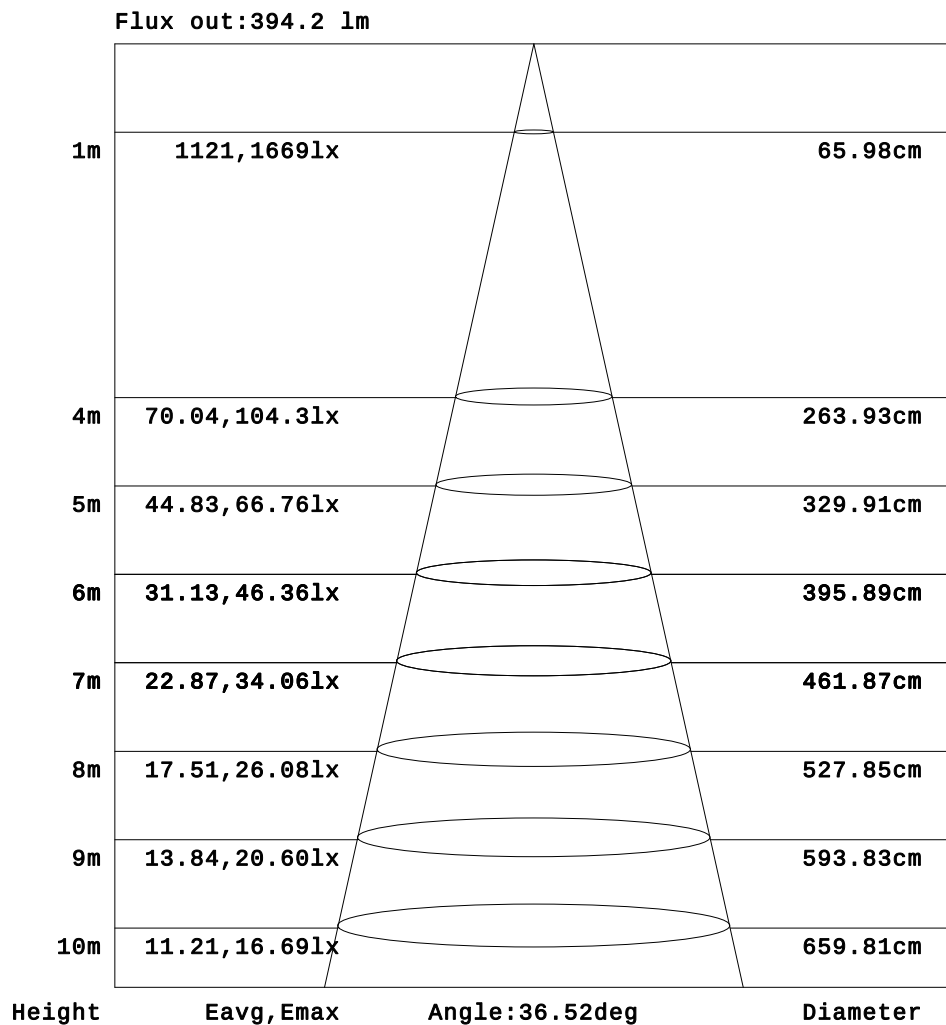


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2025-03-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.6V I:0.1740A P:22.86W PF:0.5905 Freq:50.00Hz Lamp Flux:1142.62x1 lm		
NAME: 8.02.019.0115 20x40° LLS-OP-W30B-L12-DIM	TYPE:LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2025030097
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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:2025-03-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.6V I:0.1740A P:22.86W PF:0.5905 Freq:50.00Hz Lamp Flux:1142.62x1 lm																	
NAME: 8.02.019.0115 20x40° LLS-OP-W30B-L12-DIM									TYPE:LED			WEIGHT:					
SPEC.:									DIM.:			SERIAL No.:2025030097					
MFR.: TPK OPTOELECTRONIC TECH CO., LTD									SUR.:			Shielding 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	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	2.94	4.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.28	6.38	8.36
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	2.86	5.78	9.27	12.9	17.6	22.4	25.2
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.05	6.77	12.9	20.0	27.2	34.2	39.8	42.9
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	2.80	6.47	11.8	20.5	30.6	40.8	50.7	59.8	67.1	71.6
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	6.92	14.7	24.8	38.3	52.4	65.6	78.0	88.7	96.8	101
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.81	5.84	13.6	24.2	38.6	57.2	77.1	96.3	114	129	140	147
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10	13.3	24.1	38.8	59.4	84.1	110	134	156	174	186	194
-35	0.00	0.00	0.00	0.00	0.00	0.00	1.97	8.34	18.2	31.1	49.8	76.6	109	144	177	207	232	251	264
-30	0.00	0.00	0.00	0.00	0.00	0.00	5.50	15.2	27.5	44.5	70.2	106	148	192	232	269	299	323	337
-25	0.00	0.00	0.00	0.00	0.00	0.38	7.18	17.7	31.5	51.3	82.4	128	182	240	301	359	412	456	485
-20	0.00	0.00	0.00	0.00	0.00	2.45	12.4	25.1	42.3	68.2	111	171	239	313	394	473	545	603	638
-15	0.00	0.00	0.00	0.00	0.00	2.12	12.6	25.4	43.3	70.8	118	189	275	375	489	609	726	826	893
-10	0.00	0.00	0.00	0.00	0.00	5.61	17.2	31.9	53.3	88.3	150	240	349	480	630	794	952	1083	1165
-5	0.00	0.00	0.00	0.00	0.00	4.28	15.7	30.0	50.7	84.4	145	239	361	510	690	891	1095	1273	1394
0	0.00	0.00	0.00	0.00	0.00	7.27	18.8	35.1	58.9	99.6	174	283	427	608	827	1071	1316	1522	1652
5	0.00	0.00	0.00	0.00	0.00	4.56	16.0	30.5	51.6	86.5	151	250	381	544	743	967	1196	1397	1534
10	0.00	0.00	0.00	0.00	0.00	6.21	17.8	33.0	55.3	93.3	163	264	393	554	746	956	1164	1339	1449
15	0.00	0.00	0.00	0.00	0.00	2.78	13.6	26.8	45.7	75.9	129	212	315	441	587	746	905	1042	1134
20	0.00	0.00	0.00	0.00	0.00	3.49	14.0	27.1	45.7	75.2	125	197	282	383	490	601	705	790	841
25	0.00	0.00	0.00	0.00	0.00	0.76	8.63	19.7	34.6	56.8	93.2	148	214	289	368	448	524	587	628
30	0.00	0.00	0.00	0.00	0.00	0.01	7.29	17.4	30.8	50.1	80.4	123	174	226	278	327	370	404	425
35	0.00	0.00	0.00	0.00	0.00	0.00	2.73	10.4	21.0	35.5	57.1	88.5	127	167	207	244	277	302	319
40	0.00	0.00	0.00	0.00	0.00	0.00	0.23	7.21	16.2	28.0	44.9	68.5	95.9	124	151	175	195	209	218
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	7.91	16.7	28.6	45.2	65.9	87.7	109	129	145	158	166
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.83	9.56	18.1	29.8	44.5	60.2	75.6	89.8	102	111	117
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	4.05	8.20	16.0	26.1	37.7	49.5	61.0	71.2	79.1	84.0
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81	5.87	12.1	19.9	28.2	36.4	43.9	49.5	52.8
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	2.39	5.37	9.14	13.3	19.9	27.1	32.3	35.4
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	6.32	12.6	16.6	18.9
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.43	5.78	7.99	9.26
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
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
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 Operators:QC1
 Test Date:2025-03-31

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.354
 Humidity:83%
 Test Distance:8.300m [K=1.0000]
 Remarks:

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MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	Shielding 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	0.00	0.00	0.00	0.00	0.00	0.00	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	4.60	4.60	3.83	1.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	9.27	9.08	6.86	1.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	26.4	25.7	23.2	18.1	14.1	11.0	8.00	5.42	3.27	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	43.5	41.7	37.8	32.7	27.0	20.9	14.9	9.95	5.71	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	73.2	72.0	68.1	61.9	54.1	45.2	35.4	25.5	17.2	10.4	5.53	2.21	0.00	0.00	0.00	0.00	0.00	0.00
-50	103	101	96.2	88.2	77.8	65.6	51.9	37.5	25.7	16.8	9.82	2.91	0.00	0.00	0.00	0.00	0.00	0.00
-45	149	148	142	132	118	101	82.1	61.7	43.1	28.7	18.3	9.93	3.03	0.00	0.00	0.00	0.00	0.00
-40	195	192	184	170	152	130	104	77.9	54.0	35.9	23.3	13.7	4.16	0.00	0.00	0.00	0.00	0.00
-35	268	265	252	234	210	181	148	114	80.0	52.5	33.8	20.9	10.5	2.26	0.00	0.00	0.00	0.00
-30	341	333	314	289	257	220	179	136	93.6	60.2	38.4	23.7	12.9	2.65	0.00	0.00	0.00	0.00
-25	494	484	455	413	360	303	243	185	128	81.4	50.3	31.2	17.9	7.15	0.28	0.00	0.00	0.00
-20	646	625	581	517	441	362	284	210	142	87.4	53.3	32.6	18.5	7.69	0.00	0.00	0.00	0.00
-15	915	888	819	718	601	481	369	268	182	112	66.2	40.0	23.3	11.3	1.41	0.00	0.00	0.00
-10	1181	1130	1021	874	712	553	411	289	191	114	66.3	39.6	22.7	10.5	0.63	0.00	0.00	0.00
-5	1430	1374	1241	1057	854	657	483	338	223	133	76.5	45.3	26.3	13.1	2.41	0.00	0.00	0.00
0	1670	1575	1394	1161	915	687	491	335	215	125	71.0	41.9	23.9	11.1	0.76	0.00	0.00	0.00
5	1574	1510	1358	1150	922	702	511	354	231	137	77.7	45.8	26.6	13.2	2.50	0.00	0.00	0.00
10	1469	1396	1246	1049	838	636	462	317	204	119	68.4	40.6	23.2	10.8	0.71	0.00	0.00	0.00
15	1163	1125	1026	886	727	569	424	302	199	120	69.5	41.7	24.1	11.7	1.60	0.00	0.00	0.00
20	853	823	755	661	552	440	335	241	159	95.2	56.7	34.3	19.3	8.26	0.01	0.00	0.00	0.00
25	643	629	589	527	450	369	289	215	147	90.7	55.0	33.8	19.4	8.80	0.38	0.00	0.00	0.00
30	432	423	400	364	316	266	213	160	109	68.8	43.2	26.5	14.8	5.47	0.00	0.00	0.00	0.00
35	326	322	308	285	253	216	176	134	94.0	60.8	38.6	23.9	13.3	4.83	0.00	0.00	0.00	0.00
40	221	218	209	195	175	151	123	92.5	64.0	42.2	27.4	16.5	8.22	0.95	0.00	0.00	0.00	0.00
45	169	168	162	151	136	118	96.3	73.5	51.6	34.4	22.2	13.2	6.04	1.21	0.00	0.00	0.00	0.00
50	118	117	111	102	90.5	76.4	61.1	45.4	31.5	21.1	13.1	6.72	1.25	0.00	0.00	0.00	0.00	0.00
55	86.0	85.0	81.2	74.6	65.9	55.4	43.9	32.3	22.2	14.3	8.07	3.94	1.16	0.00	0.00	0.00	0.00	0.00
60	53.7	52.3	48.9	43.7	37.4	29.9	22.0	15.0	9.41	4.81	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	36.6	35.7	32.2	26.9	21.8	16.7	11.8	8.12	5.22	2.83	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	19.5	18.0	13.6	7.92	4.13	1.38	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	9.74	9.26	7.36	4.46	2.39	0.94	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	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
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:2025-03-31

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.354
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks: