

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	638.7 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	114.2V x 112.6H
	At 50% of Imax	70.1V x 76.3H
	At 90% of Imax	31.6V x 50.7H

Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	950.8 lumens per klm.
	To 50% of Imax	691.7 lumens per klm.
	To 90% of Imax	324.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

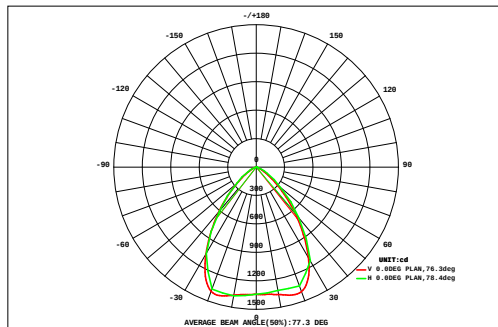
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:220.4V I:0.2506A P:34.31W PF:0.6210 Lamp Flux:2210.07x1 lm		
NAME: 8.01.020.0017 60° LWW-OP-D80-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:64.41lm/W	
MODEL LWW-OP-D80-L12-RDM	Imax(cd)	1412	
NOMINAL POWER(W)	34	AVAILABILITY(%)	95.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	2102
NOMINAL FLUX(lm)	2210.07	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2210
TEST VOLTAGE(V)	220.4	θ @50%(H,V)	76,70DEG

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
80	0.00	0.00	0.00	0.02	0.10	0.22	0.47	0.65	0.69	0.72	0.71	0.54	0.28	0.12	0.03	0.00	0.00	4.55	0.00
70	0.00	0.00	0.01	0.15	0.52	1.04	1.62	2.16	2.55	2.59	2.26	1.74	1.11	0.56	0.19	0.02	0.00	16.5	0.00
60	0.00	0.00	0.07	0.49	1.27	2.54	4.06	5.52	6.50	6.51	5.64	4.20	2.61	1.31	0.52	0.12	0.00	41.4	27.0
50	0.00	0.00	0.20	0.90	2.49	5.24	8.83	12.4	14.7	14.7	12.5	9.00	5.40	2.57	0.96	0.25	0.01	90.1	83.9
40	0.00	0.02	0.34	1.46	4.28	9.33	16.0	22.7	27.0	27.0	22.9	16.5	9.69	4.44	1.55	0.40	0.03	164	159
30	0.00	0.03	0.48	2.08	6.38	14.1	24.1	33.0	37.7	37.9	33.5	25.0	14.8	6.64	2.21	0.54	0.05	239	235
20	0.00	0.05	0.59	2.62	8.20	18.4	31.0	39.0	40.9	40.9	39.2	31.8	19.2	8.57	2.78	0.65	0.07	284	281
10	0.00	0.06	0.64	2.90	9.17	20.6	34.4	40.8	40.5	40.5	40.7	35.2	21.6	9.65	3.10	0.72	0.08	301	298
0	0.00	0.05	0.63	2.83	8.96	20.2	33.8	40.8	41.3	41.3	40.7	34.6	21.3	9.55	3.10	0.72	0.08	300	297
-10	0.00	0.04	0.53	2.41	7.53	17.0	29.1	38.1	41.4	41.6	38.4	30.3	18.3	8.29	2.73	0.66	0.07	277	273
-20	0.00	0.02	0.42	1.84	5.60	12.5	21.8	31.1	36.9	37.2	32.0	23.1	13.4	6.07	2.06	0.51	0.05	225	221
-30	0.00	0.00	0.28	1.28	3.76	8.27	14.2	20.7	25.0	25.1	20.9	14.6	8.35	3.80	1.34	0.33	0.01	148	143
-40	0.00	0.00	0.14	0.87	2.35	4.85	8.07	11.2	12.8	12.4	10.3	7.24	4.14	1.90	0.69	0.13	0.00	77.0	70.2
-50	0.00	0.00	0.03	0.37	1.11	2.18	3.30	4.27	4.88	4.81	4.07	3.00	1.90	0.97	0.37	0.04	0.00	31.3	13.4
-60	0.00	0.00	0.00	0.09	0.42	0.79	1.18	1.50	1.71	1.68	1.43	1.08	0.69	0.36	0.10	0.00	0.00	11.0	0.00
-70	0.00	0.00	0.00	0.00	0.06	0.14	0.25	0.31	0.32	0.32	0.30	0.24	0.13	0.04	0.00	0.00	0.00	2.11	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
-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
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(DEG) 20 30 40 50 60 70 80 90																			
Φ t	0.00	0.28	4.37	20.3	62.2	138	232	304	335	335	306	238	143	64.8	21.7	5.09	0.47	0.00	2210
Φ a	0.00	0.00	0.00	8.71	54.1	131	225	296	328	328	298	231	136	57.0	10.7	0.00	0.00	0.00	2102

one-half-peak spread: U:34.2,D:36.3 , L:20.9,R:20.7

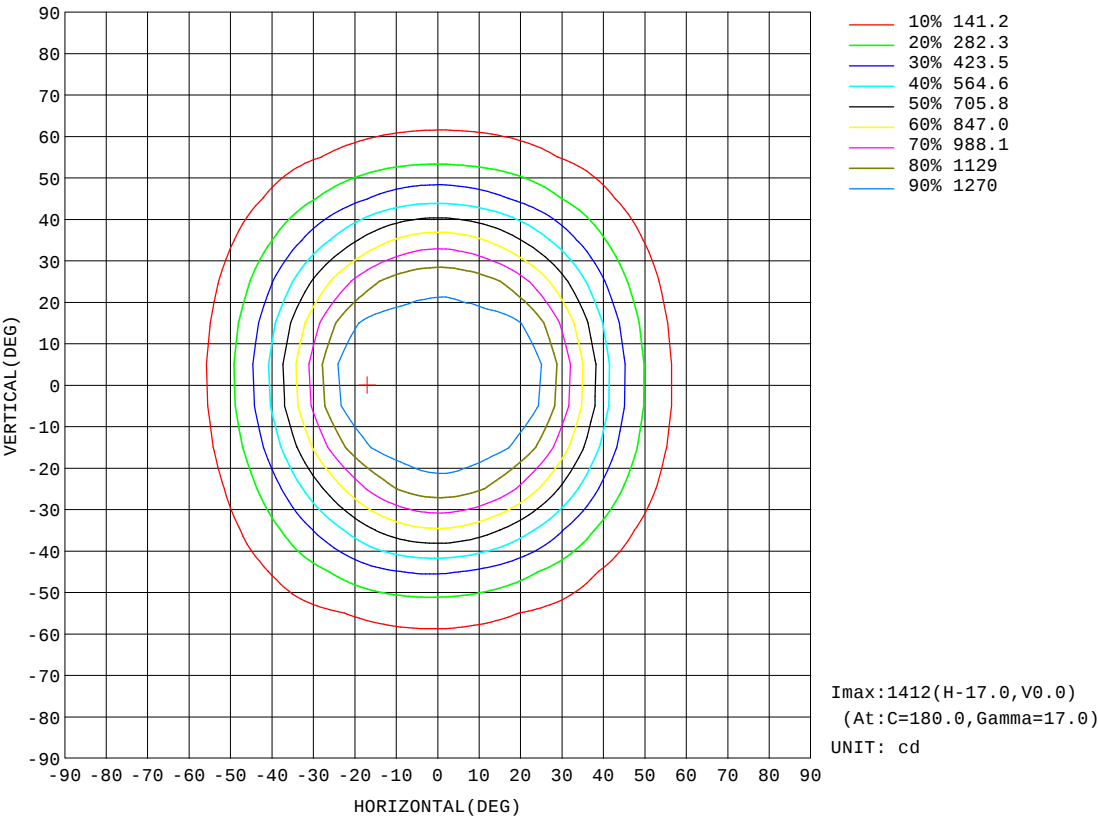
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:220.4V I:0.2506A P:34.31W PF:0.6210 Lamp Flux:2210.07x1 lm		
NAME: 8.01.020.0017 60° LWW-OP-D80-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

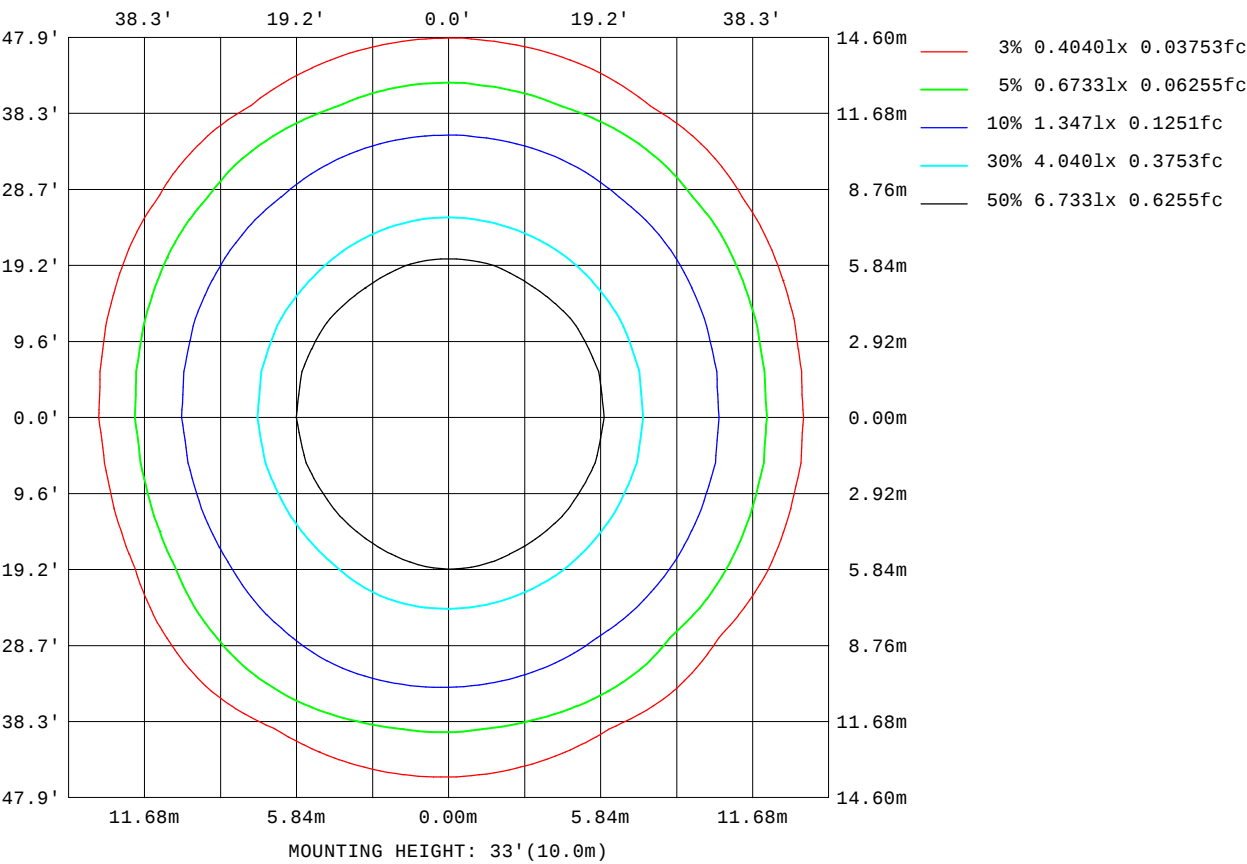


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V(B) Interval: 5.0DEG
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Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

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DIM.:	SPEC.:	SERIAL No.:2024090051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

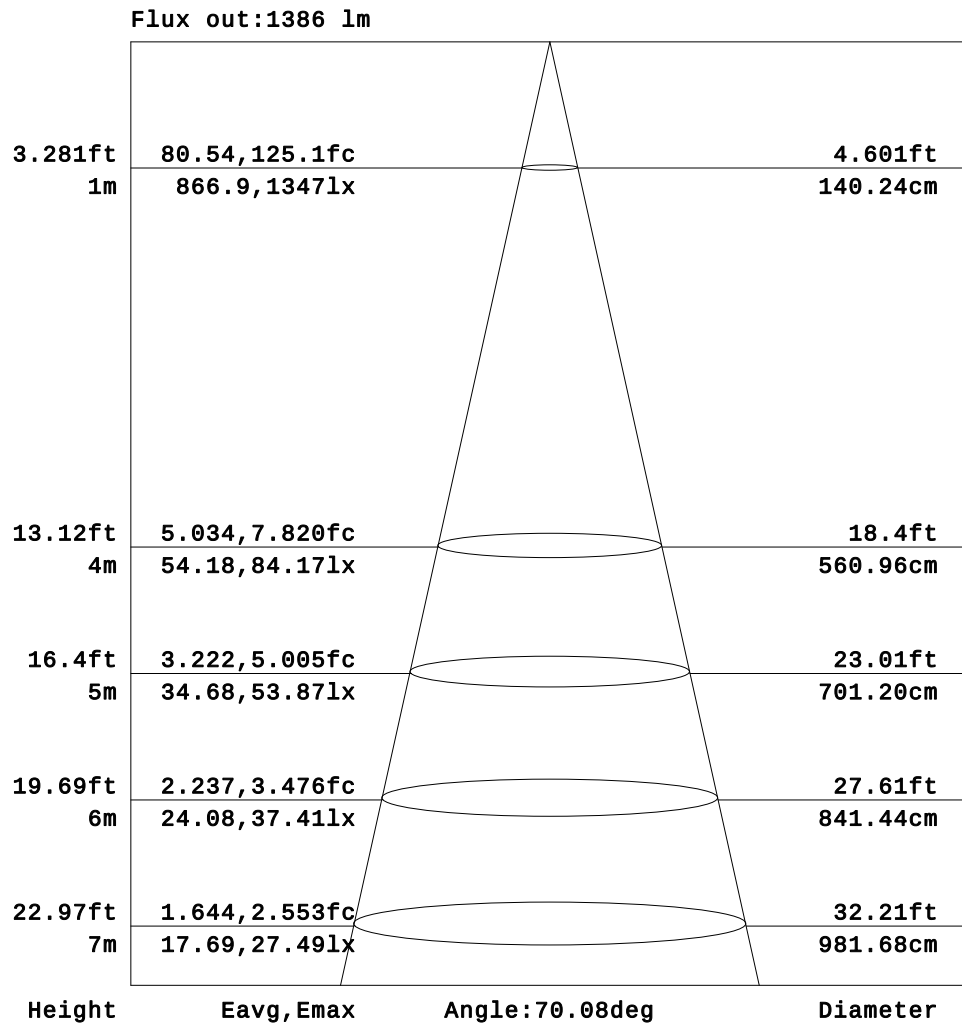


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-09-10

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:220.4V I:0.2506A P:34.31W PF:0.6210 Lamp Flux:2210.07x1 lm		
NAME: 8.01.020.0017 60° LWW-OP-D80-L12-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024090051
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

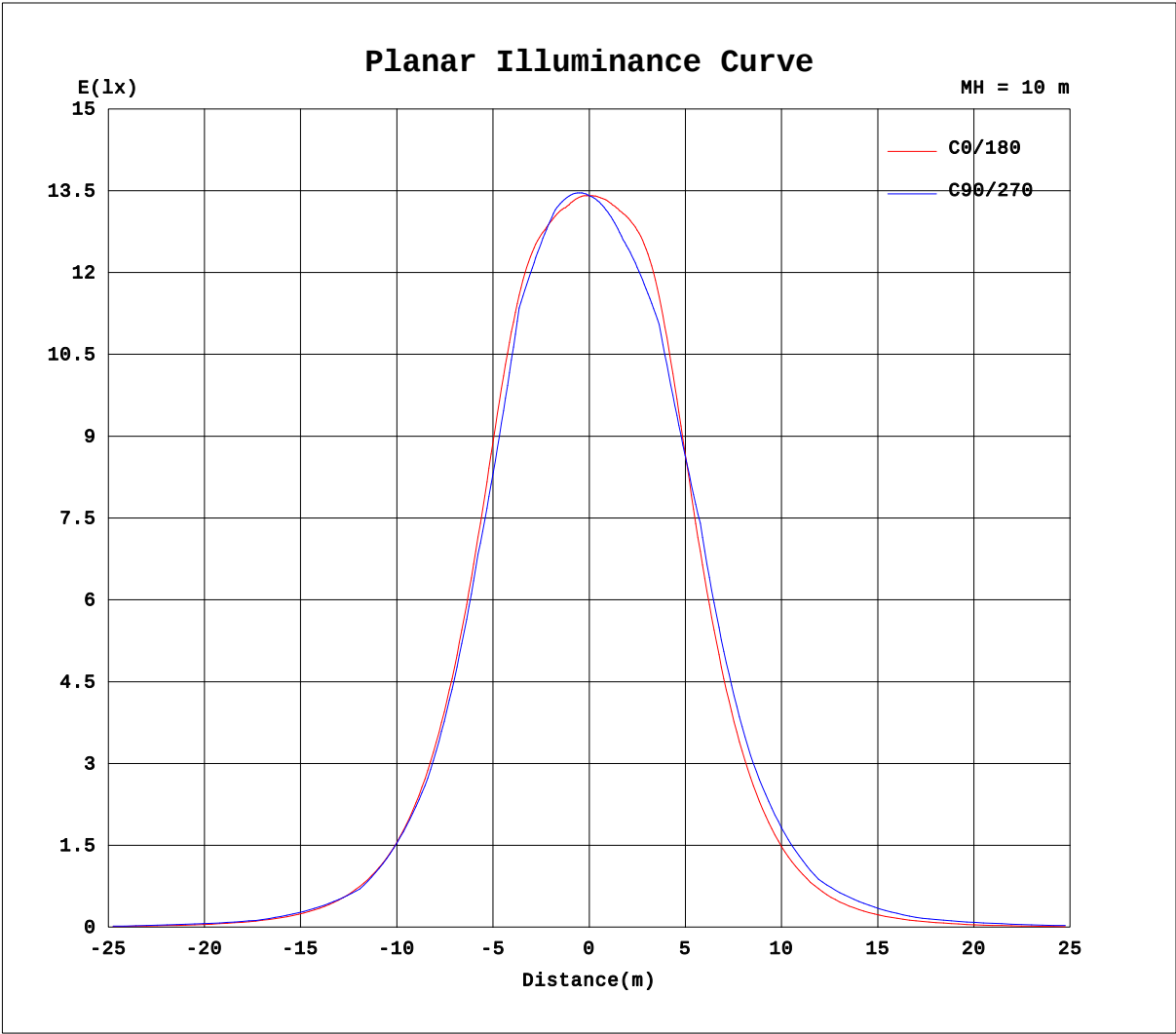


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
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Test Speed: HIGH
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Test Date:2024-09-10

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Remarks:

Planar Illuminance Curve



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

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2024090051
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	0.00	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	1.15	4.54	6.31	8.21	10.5	12.5	13.9	14.7	15.3	15.7	15.8
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.30	9.07	12.6	16.4	21.0	25.0	27.8	29.4	30.6	31.3	31.7
-65	0.00	0.00	0.00	0.00	0.00	0.00	1.06	5.54	12.3	21.5	28.7	36.3	43.8	50.6	56.3	61.1	65.1	67.6	68.2
-60	0.00	0.00	0.00	0.00	0.00	0.00	2.12	11.1	22.3	34.0	44.7	56.3	66.6	76.2	84.7	92.7	99.5	104	105
-55	0.00	0.00	0.00	0.00	0.00	1.97	8.93	21.2	37.4	53.4	73.0	94.3	114	132	150	165	177	184	186
-50	0.00	0.00	0.00	0.00	0.00	3.94	15.7	31.3	52.6	72.8	101	132	162	189	214	237	255	265	266
-45	0.00	0.00	0.00	0.00	0.80	9.76	25.2	46.6	74.5	107	148	196	245	295	345	387	418	435	437
-40	0.00	0.00	0.00	0.00	1.60	15.6	34.7	61.9	96.4	142	195	259	329	401	475	537	581	606	608
-35	0.00	0.00	0.00	0.00	3.66	20.6	41.4	70.6	115	174	247	333	425	520	618	707	775	817	831
-30	0.00	0.00	0.00	0.00	5.71	25.6	48.1	79.2	135	207	300	407	521	638	760	876	968	1029	1054
-25	0.00	0.00	0.00	0.00	10.3	29.1	56.7	97.7	163	252	365	496	637	781	921	1041	1130	1188	1211
-20	0.00	0.00	0.00	0.00	14.8	32.5	65.3	116	192	296	431	585	753	924	1082	1207	1292	1347	1368
-15	0.00	0.00	0.00	1.12	16.2	36.8	72.3	129	216	336	490	667	858	1043	1194	1288	1335	1362	1373
-10	0.00	0.00	0.00	2.23	17.5	41.0	79.2	141	240	376	549	748	963	1162	1306	1369	1378	1377	1377
-5	0.00	0.00	0.00	3.32	19.1	43.5	84.1	150	253	398	580	789	1012	1215	1350	1387	1374	1363	1359
0	0.00	0.00	0.00	4.41	20.7	46.0	88.9	158	267	420	611	830	1061	1268	1393	1406	1370	1349	1342
5	0.00	0.00	0.00	4.01	20.1	44.9	86.7	154	261	410	597	810	1036	1240	1366	1386	1357	1338	1331
10	0.00	0.00	0.00	3.60	19.5	43.8	84.5	150	256	400	582	789	1011	1211	1340	1367	1343	1327	1320
15	0.00	0.00	0.00	2.77	18.2	41.0	78.9	140	236	368	535	724	927	1116	1253	1312	1323	1326	1326
20	0.00	0.00	0.00	1.94	16.8	38.3	73.4	129	215	336	488	659	843	1020	1166	1257	1303	1325	1332
25	0.00	0.00	0.00	0.98	14.4	33.7	64.4	113	187	290	418	564	720	875	1013	1115	1182	1223	1236
30	0.00	0.00	0.00	0.01	11.9	29.1	55.4	96.4	159	243	348	468	598	730	860	973	1062	1120	1140
35	0.00	0.00	0.00	0.01	9.13	24.3	46.6	80.3	130	197	280	376	481	586	690	783	857	905	921
40	0.00	0.00	0.00	0.00	6.37	19.6	37.8	64.1	101	152	213	284	364	442	521	593	652	690	702
45	0.00	0.00	0.00	0.00	3.19	14.6	29.9	50.7	78.9	117	163	215	274	331	388	440	482	509	518
50	0.00	0.00	0.00	0.00	0.02	9.68	22.0	37.2	56.6	81.6	112	146	184	220	255	287	313	328	334
55	0.00	0.00	0.00	0.00	0.01	4.99	15.2	27.6	42.0	60.0	82.0	106	132	156	179	201	218	230	234
60	0.00	0.00	0.00	0.00	0.00	0.31	8.53	18.0	27.3	38.5	51.9	65.9	79.1	91.3	103	114	124	131	134
65	0.00	0.00	0.00	0.00	0.00	0.15	4.27	9.77	17.4	25.6	34.6	44.3	53.8	62.5	70.6	78.3	84.8	89.4	91.7
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	7.45	12.7	17.4	22.6	28.4	33.7	38.2	42.1	45.4	48.0	49.4
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	3.73	6.37	8.68	11.3	15.3	19.4	22.6	24.8	25.9	26.8	27.3
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	2.16	4.98	6.95	7.48	6.49	5.58	5.28
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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LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:									SPEC.:						SERIAL No.:2024090051		
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	0.00	0.00	0.00	0.00	0.00	0.00	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	15.6	14.9	14.2	13.2	11.7	9.52	7.31	5.33	3.50	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	31.3	29.9	28.3	26.4	23.3	19.0	14.6	10.7	7.00	3.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	66.7	63.1	58.3	52.8	46.5	39.1	31.6	24.5	18.1	12.3	5.96	1.47	0.00	0.00	0.00	0.00	0.00	0.00	
-60	102	96.3	88.3	79.3	69.7	59.3	48.7	38.4	29.1	21.2	11.9	2.94	0.00	0.00	0.00	0.00	0.00	0.00	
-55	181	171	157	140	121	102	82.1	63.6	46.9	33.0	21.1	9.63	2.24	0.00	0.00	0.00	0.00	0.00	
-50	260	246	225	200	173	144	116	88.9	64.6	44.8	30.4	16.3	4.47	0.00	0.00	0.00	0.00	0.00	
-45	425	401	365	322	275	224	174	131	92.2	62.1	40.8	23.9	9.58	0.55	0.00	0.00	0.00	0.00	
-40	591	555	505	445	377	304	232	172	120	79.3	51.2	31.5	14.7	1.11	0.00	0.00	0.00	0.00	
-35	814	771	705	623	529	429	332	245	172	114	72.6	44.0	23.2	7.16	0.00	0.00	0.00	0.00	
-30	1038	987	905	801	681	554	431	317	224	150	94.0	56.4	31.7	13.2	0.00	0.00	0.00	0.00	
-25	1197	1148	1069	962	829	681	531	392	274	181	111	65.9	36.7	16.7	2.95	0.00	0.00	0.00	
-20	1355	1310	1233	1123	977	807	631	466	324	211	129	75.4	41.8	20.3	5.89	0.00	0.00	0.00	
-15	1367	1344	1300	1222	1089	910	716	531	369	239	145	84.0	46.0	22.4	7.01	0.00	0.00	0.00	
-10	1379	1377	1367	1321	1201	1014	801	595	414	266	161	92.7	50.3	24.5	8.12	0.00	0.00	0.00	
-5	1362	1371	1382	1359	1249	1058	835	618	427	275	166	94.2	50.9	24.5	8.07	0.00	0.00	0.00	
0	1346	1365	1397	1397	1297	1102	868	640	440	284	171	95.8	51.5	24.6	8.01	0.00	0.00	0.00	
5	1335	1353	1381	1375	1272	1078	849	626	431	276	166	94.0	50.4	24.1	7.73	0.00	0.00	0.00	
10	1324	1341	1365	1354	1247	1055	830	611	421	269	162	92.2	49.4	23.6	7.44	0.00	0.00	0.00	
15	1325	1324	1317	1272	1150	965	757	558	385	248	149	85.5	46.1	22.0	6.53	0.00	0.00	0.00	
20	1326	1307	1269	1190	1053	875	685	505	349	227	136	78.7	42.7	20.4	5.62	0.00	0.00	0.00	
25	1224	1190	1131	1038	907	751	588	434	300	196	120	70.0	38.3	18.2	4.48	0.00	0.00	0.00	
30	1123	1073	992	885	760	626	490	364	252	166	103	61.3	34.0	16.1	3.33	0.00	0.00	0.00	
35	905	861	794	707	607	499	392	292	204	136	85.7	51.5	28.8	13.1	1.67	0.00	0.00	0.00	
40	686	649	595	528	453	373	294	221	156	105	67.9	41.7	23.6	10.2	0.02	0.00	0.00	0.00	
45	506	480	442	394	339	280	222	168	120	82.2	53.8	33.4	18.6	7.18	0.01	0.00	0.00	0.00	
50	325	311	289	259	225	188	151	116	84.4	59.0	39.6	25.1	13.7	4.13	0.00	0.00	0.00	0.00	
55	229	220	204	184	161	135	109	84.3	62.0	43.8	29.5	18.2	8.94	2.06	0.00	0.00	0.00	0.00	
60	133	128	119	109	97.2	82.9	67.4	52.9	39.7	28.6	19.4	11.2	4.18	0.00	0.00	0.00	0.00	0.00	
65	91.1	87.5	81.9	75.1	67.0	57.2	46.6	36.5	26.9	18.9	11.9	5.65	2.09	0.00	0.00	0.00	0.00	0.00	
70	49.2	47.3	44.5	41.1	36.8	31.5	25.7	20.0	14.2	9.12	4.42	0.08	0.00	0.00	0.00	0.00	0.00	0.00	
75	27.6	27.3	26.7	25.0	21.7	17.8	13.6	10.00	7.11	4.56	2.21	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
80	5.99	7.35	8.96	8.83	6.62	4.01	1.57	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:2024-09-10

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: