

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

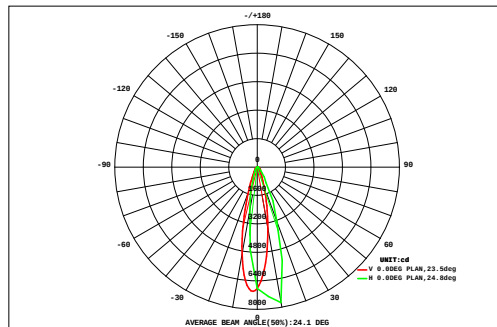
Maximum Intensity (Luminaire orientation as tested.)		3415.0 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	51.7V x 49.7H
	At 50% of Imax	24.4V x 23.2H
	At 90% of Imax	11.5V x 8.6H
Beam Flux	Total	999.7 lumens per klm.
	To 10% of Imax	719.1 lumens per klm.
	To 50% of Imax	350.2 lumens per klm.
	To 90% of Imax	63.1 lumens per klm.
Upward LOR		0.0 %
Downward LOR		100.0 %
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:2023-12-28

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:51.11lm/W	
MODEL	DKP-F170-24P-RDM-AL	Imax(cd)	7791
NOMINAL POWER(W)	44	AVAILABILITY(%)	73.1
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1667
NOMINAL FLUX(lm)	2281.35	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2281
TEST VOLTAGE(V)	120.3	θ @50%(H,V)	23, 24DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.51	0.67	0.87	1.10	1.36	1.66	2.00	2.32	2.56	2.67	2.62	2.43	2.14	1.82	1.51	1.24	1.00	0.77	29.2	0.00
45	0.72	0.95	1.22	1.55	1.93	2.38	2.84	3.21	3.42	3.40	3.16	2.78	2.34	1.91	1.53	1.23	0.96	0.72	36.2	0.00
40	0.64	0.89	1.19	1.59	2.15	2.93	3.96	5.11	6.07	6.48	6.17	5.32	4.26	3.27	2.45	1.82	1.36	1.02	56.7	15.2
35	0.93	1.28	1.75	2.42	3.40	4.77	6.41	7.95	8.79	8.55	7.39	5.84	4.36	3.18	2.30	1.65	1.21	0.89	73.1	41.7
30	0.77	1.08	1.52	2.21	3.39	5.55	9.24	14.3	18.8	20.4	18.2	13.6	9.16	5.95	3.89	2.61	1.79	1.26	134	111
25	1.12	1.60	2.39	3.76	6.38	11.1	18.2	25.5	29.2	26.9	20.2	13.1	8.03	4.95	3.17	2.12	1.45	1.02	180	158
20	0.85	1.20	1.71	2.62	4.41	8.58	17.4	30.9	44.8	50.8	43.5	29.1	16.7	9.32	5.39	3.31	2.14	1.43	274	255
15	1.22	1.79	2.79	4.83	9.54	20.2	37.7	57.2	68.3	60.9	40.4	22.0	11.3	6.17	3.65	2.33	1.55	1.07	353	334
10	0.84	1.18	1.67	2.47	3.95	7.37	16.1	31.5	47.9	55.8	48.7	32.9	18.5	9.93	5.57	3.36	2.17	1.44	291	272
5	1.17	1.70	2.62	4.43	8.46	17.3	33.0	48.7	53.4	43.3	27.7	15.2	8.10	4.69	2.99	2.03	1.40	1.00	277	257
0	0.77	1.05	1.42	1.93	2.66	3.92	6.93	14.2	23.5	29.0	26.6	19.3	11.9	6.99	4.27	2.76	1.86	1.29	160	139
-5	1.01	1.39	1.94	2.83	4.32	6.55	9.19	11.0	10.6	8.15	5.72	4.05	3.25	2.65	2.07	1.56	1.15	0.85	78.3	50.3
-10	0.66	0.88	1.15	1.47	1.88	2.50	3.45	5.06	7.25	8.80	8.64	7.09	5.22	3.71	2.66	1.94	1.42	1.04	64.8	34.3
-15	0.80	1.05	1.34	1.71	2.17	2.59	2.80	2.58	2.08	1.75	1.63	1.63	1.67	1.56	1.35	1.11	0.89	0.68	29.4	0.00
-20	0.53	0.70	0.89	1.10	1.33	1.62	1.96	2.34	2.70	2.92	2.91	2.69	2.34	1.95	1.59	1.28	1.01	0.79	30.7	0.00
-25	0.61	0.77	0.94	1.12	1.29	1.44	1.53	1.55	1.52	1.45	1.37	1.30	1.20	1.08	0.94	0.80	0.65	0.51	20.1	0.00
-30	0.41	0.52	0.65	0.78	0.92	1.06	1.19	1.32	1.41	1.46	1.45	1.39	1.27	1.14	0.99	0.84	0.69	0.55	18.0	0.00
-35	0.44	0.54	0.63	0.73	0.82	0.90	0.96	0.99	0.99	0.97	0.93	0.86	0.79	0.71	0.63	0.54	0.44	0.34	13.2	0.00
-40	0.44	0.54	0.63	0.73	0.82	0.90	0.96	0.99	0.99	0.97	0.93	0.86	0.79	0.71	0.63	0.54	0.44	0.34	13.2	0.00
-45	0.44	0.54	0.63	0.73	0.82	0.90	0.96	0.99	0.99	0.97	0.93	0.86	0.79	0.71	0.63	0.54	0.44	0.34	13.2	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
Φ t	14.0	19.2	26.7	38.6	60.4	102	175	266	333	334	267	181	113	71.0	46.9	32.5	23.1	16.7	2120	---
Φ a	0.00	0.00	0.00	2.81	23.9	74.0	152	244	314	317	250	160	84.9	37.8	6.87	0.00	0.00	0.00	---	1667

one-half-peak spread: U:16.4,D:8.2 , L:12.1,R:11.3

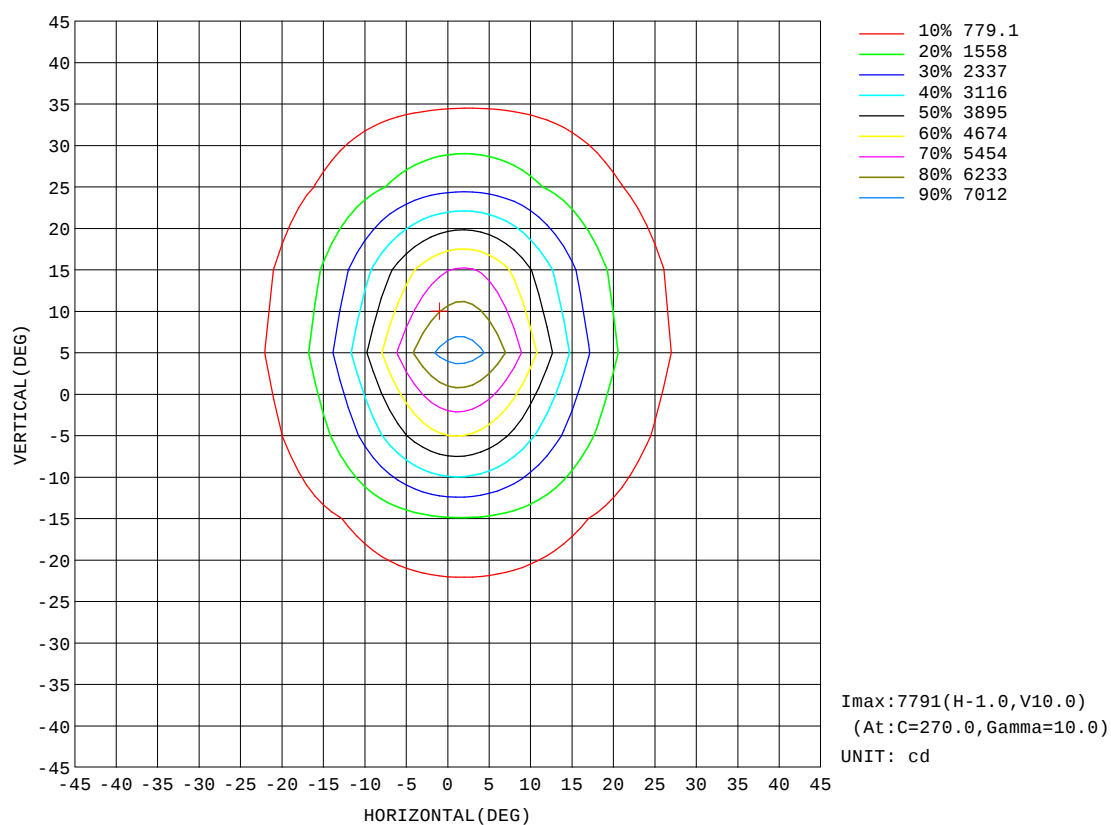
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

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:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

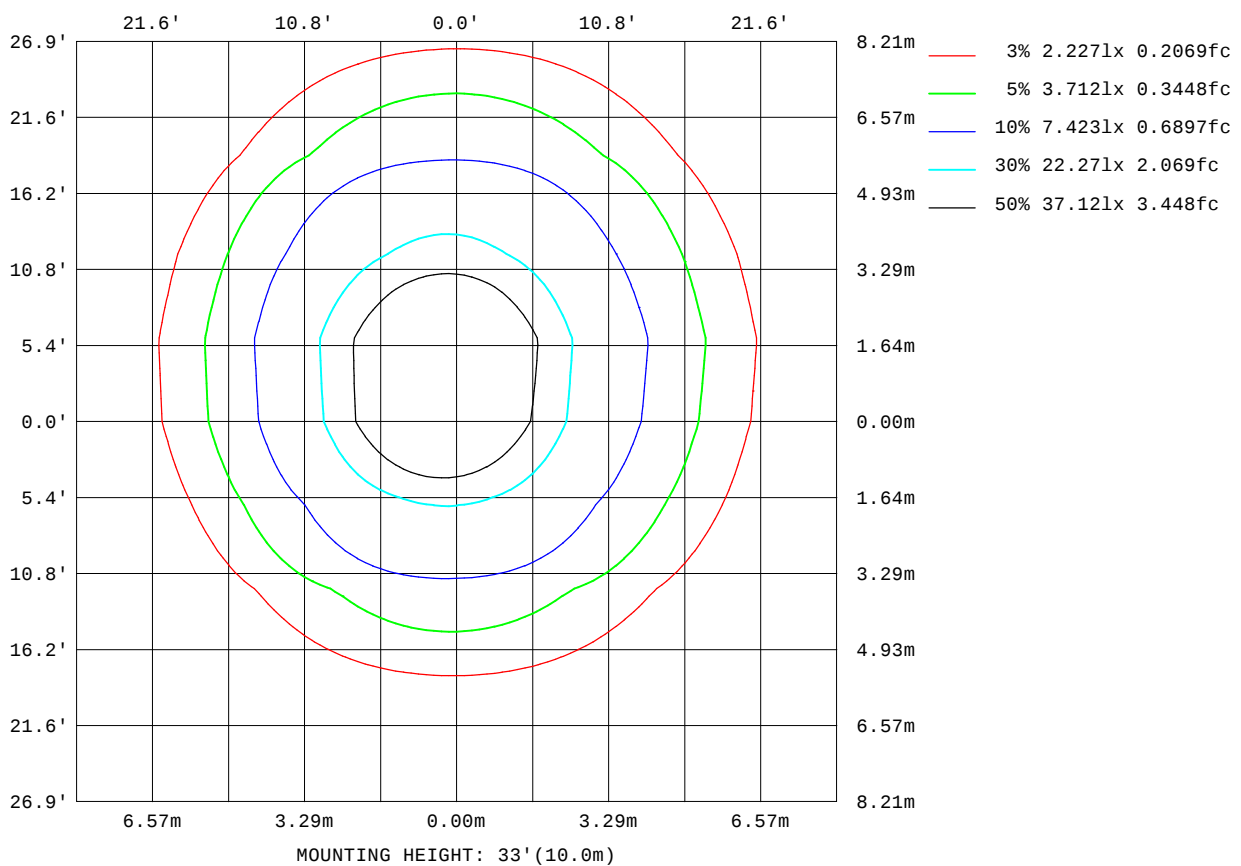


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

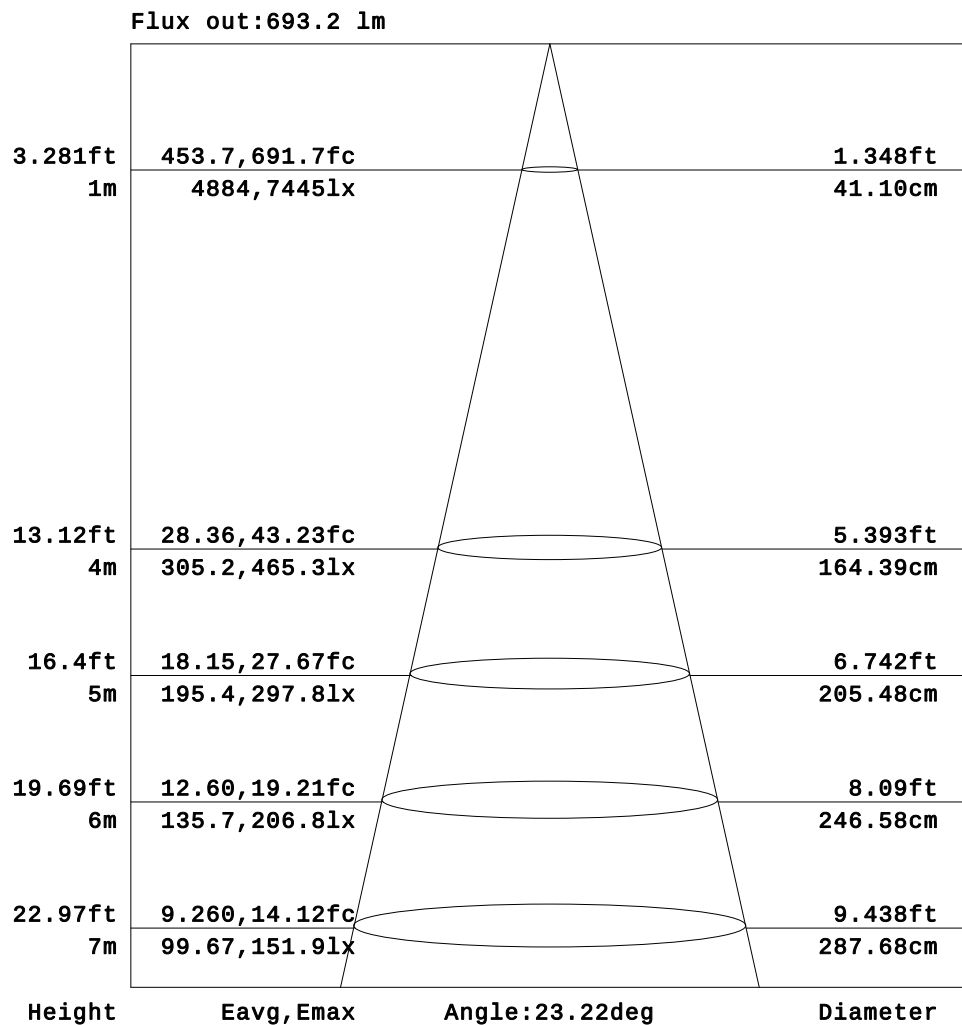


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

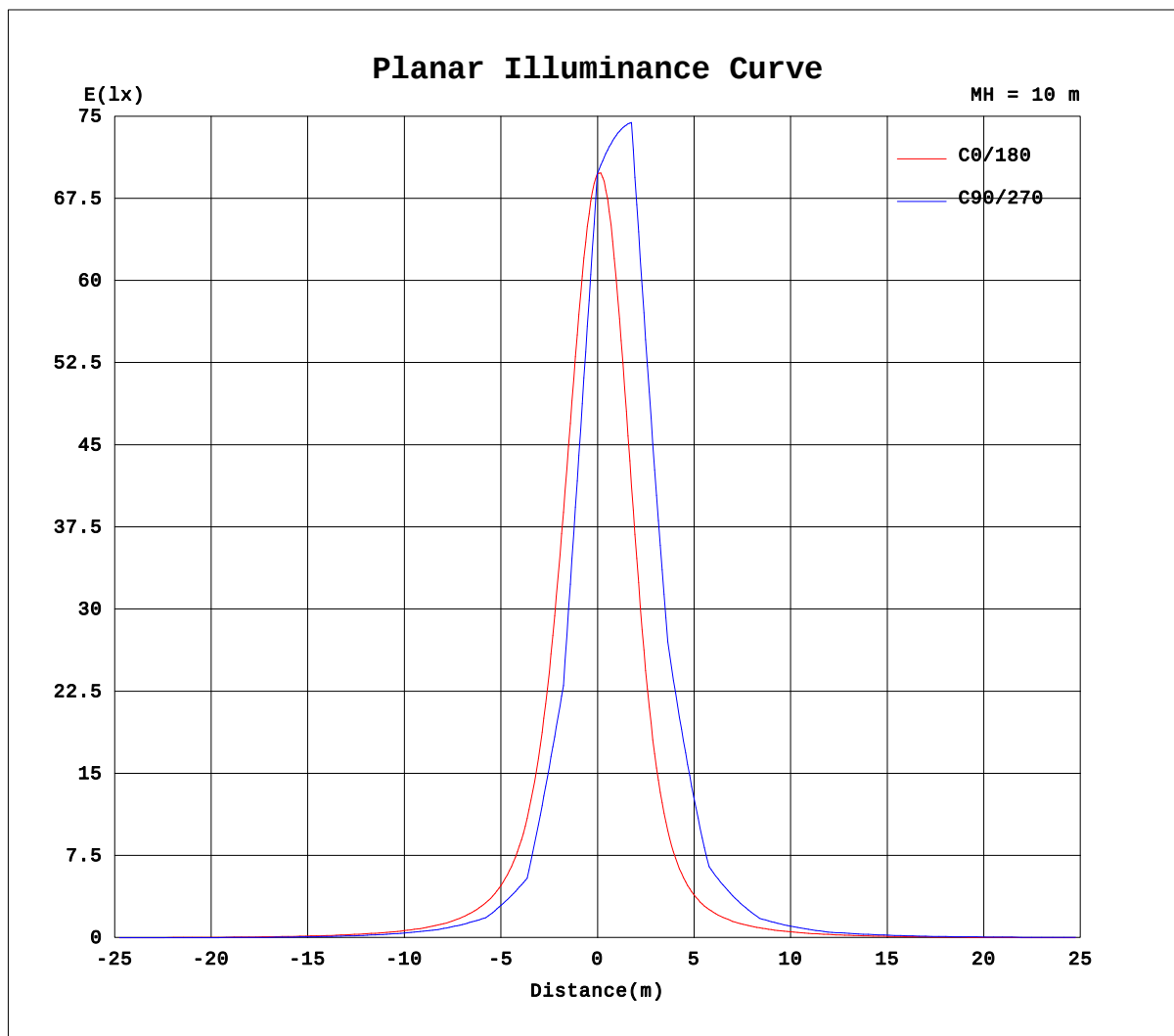


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
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:27.1DEG
Operators:QC1
Test Date:2023-12-28

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:61%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W TYPE:LED		WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-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	0.00	0.00	0.00
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	4.56	7.72	10.6	13.0	15.3	17.0	18.1	18.6	19.1	19.6	19.7
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.26	6.37	13.0	19.1	24.2	28.8	32.9	35.5	36.9	37.7	38.9	39.4	39.2
-55	0.00	0.00	0.00	0.00	0.00	0.42	4.79	10.8	19.8	28.8	36.7	43.1	48.6	53.2	56.7	59.5	62.0	64.1	65.0
-50	0.00	0.00	0.00	0.00	0.00	6.01	15.2	25.9	37.4	48.3	57.3	64.2	70.2	75.3	80.0	84.1	87.8	90.1	90.4
-45	0.00	0.00	0.00	0.00	0.09	5.31	16.1	29.2	42.3	54.5	65.6	75.9	85.3	94.2	103	110	117	122	125
-40	0.00	0.00	0.00	0.00	5.24	17.1	32.3	48.5	61.9	74.2	86.5	98.9	111	123	135	145	154	159	160
-35	0.00	0.00	0.00	0.00	2.51	13.8	29.2	46.6	62.6	77.4	92.8	109	127	145	163	182	200	214	222
-30	0.00	0.00	0.00	0.89	12.2	27.7	47.2	64.3	80.9	98.7	119	140	163	188	215	241	264	280	286
-25	0.00	0.00	0.00	0.00	7.16	21.5	41.2	60.2	78.8	98.8	122	148	178	215	262	318	379	435	467
-20	0.00	0.00	0.00	4.63	18.3	38.0	58.5	78.3	100	125	155	191	235	294	374	468	564	636	655
-15	0.00	0.00	0.00	0.18	11.1	28.1	50.1	70.8	93.3	120	152	191	245	324	453	657	955	1298	1518
-10	0.00	0.00	0.00	7.01	22.7	44.8	66.5	89.6	117	151	194	252	341	492	755	1182	1764	2279	2389
-5	0.00	0.00	0.00	0.67	13.9	32.9	55.9	78.5	105	137	177	232	319	471	777	1405	2541	3880	4668
0	0.00	0.00	0.00	8.74	25.9	49.1	71.9	97.6	129	169	222	308	456	764	1447	2855	4967	6666	6815
5	0.00	0.00	0.00	0.93	14.8	34.5	57.9	81.3	109	144	190	254	362	565	1005	1992	3788	5919	7293
10	0.00	0.00	0.00	8.33	25.3	48.4	71.4	97.0	129	172	228	316	475	809	1574	3089	5211	7167	7734
15	0.00	0.00	0.00	0.54	13.8	32.7	55.8	78.7	106	140	183	244	341	517	877	1628	2898	4392	5425
20	0.00	0.00	0.00	6.90	22.9	45.0	67.2	91.4	121	157	205	274	390	592	964	1584	2400	3075	3238
25	0.00	0.00	0.00	0.10	11.0	27.8	49.7	71.1	95.0	124	160	207	275	380	560	860	1307	1795	2102
30	0.00	0.00	0.00	3.57	17.6	36.9	57.6	78.6	102	131	168	213	274	359	482	642	817	956	1005
35	0.00	0.00	0.00	0.00	6.57	20.8	40.1	59.7	79.4	102	128	161	201	252	321	413	522	626	692
40	0.00	0.00	0.00	0.52	11.8	26.8	46.2	64.3	82.4	103	127	154	186	222	265	313	356	388	401
45	0.00	0.00	0.00	0.00	2.13	13.1	28.1	45.6	62.4	78.9	96.9	117	140	165	193	224	256	282	299
50	0.00	0.00	0.00	0.00	4.50	16.2	30.8	47.4	62.1	75.9	90.6	107	123	141	159	175	189	199	204
55	0.00	0.00	0.00	0.00	0.00	5.21	16.1	29.2	42.8	56.2	68.8	81.0	93.2	106	118	130	142	151	157
60	0.00	0.00	0.00	0.00	0.00	7.04	16.7	27.3	39.8	51.7	61.7	70.0	77.7	85.1	92.2	99.4	106	110	113
65	0.00	0.00	0.00	0.00	0.00	0.69	5.44	12.6	22.2	32.3	41.2	48.5	55.0	60.9	65.7	69.9	73.6	77.1	79.4
70	0.00	0.00	0.00	0.00	0.00	0.00	1.82	8.98	16.7	23.9	29.7	34.9	39.7	42.8	44.2	45.1	45.9	46.9	47.2
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.26	6.07	9.86	13.2	16.4	19.8	22.7	24.3	24.0	23.5	23.9	24.4
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	2.15	3.68	4.82	4.21	2.18	1.55	1.55	1.59
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:27.1DEG
 Operators:QC1
 Test Date:2023-12-28

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.3V I:0.5664A P:44.63W PF:0.6551 Lamp Flux:2281.35x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-W	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120058
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	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	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	19.5	18.8	17.7	16.6	15.4	13.8	11.8	9.67	7.27	4.23	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	38.2	36.3	34.1	31.8	29.0	25.2	21.0	16.6	11.0	4.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	64.5	62.7	59.8	56.3	52.4	47.9	42.6	36.8	29.8	21.3	12.4	6.54	2.08	0.00	0.00	0.00	0.00	0.00
-50	89.0	85.8	81.4	76.1	70.6	64.3	57.3	49.0	38.6	27.2	16.9	7.63	0.00	0.00	0.00	0.00	0.00	0.00
-45	125	122	116	109	100	91.7	82.2	71.9	60.2	47.5	34.2	21.0	9.31	1.75	0.00	0.00	0.00	0.00
-40	158	151	142	132	120	108	94.9	81.1	66.8	51.7	35.6	19.5	7.71	0.00	0.00	0.00	0.00	0.00
-35	222	214	201	184	165	146	128	110	92.3	74.4	56.3	37.7	20.5	7.37	0.47	0.00	0.00	0.00
-30	279	262	240	214	188	163	140	118	96.4	75.3	54.7	34.4	16.5	4.36	0.00	0.00	0.00	0.00
-25	465	431	378	322	269	224	187	155	127	102	77.2	53.9	32.1	14.5	2.79	0.00	0.00	0.00
-20	616	539	448	365	295	239	194	158	126	98.2	71.3	46.8	24.7	9.29	0.32	0.00	0.00	0.00
-15	1471	1208	891	635	460	344	263	205	161	127	96.5	67.7	42.3	20.6	6.27	0.03	0.00	0.00
-10	2042	1491	1006	679	475	345	257	197	154	119	86.5	57.3	32.2	13.3	1.91	0.00	0.00	0.00
-5	4341	3235	2050	1215	743	489	344	251	191	148	111	77.3	48.7	24.7	8.35	0.16	0.00	0.00
0	5409	3515	1992	1111	674	443	309	227	172	131	94.8	62.2	35.1	14.9	2.50	0.00	0.00	0.00
5	6869	4995	3005	1665	949	587	394	278	206	158	118	81.7	51.2	26.3	9.11	0.32	0.00	0.00
10	6258	3995	2225	1241	737	474	328	235	177	135	97.1	63.5	36.1	15.3	2.76	0.00	0.00	0.00
15	5236	3922	2457	1439	864	552	377	270	201	155	115	79.5	49.2	25.0	8.36	0.20	0.00	0.00
20	2790	2025	1337	865	574	398	287	215	166	126	89.5	57.7	31.9	13.0	1.75	0.00	0.00	0.00
25	2057	1694	1230	850	587	416	304	230	179	139	103	70.2	42.8	21.0	6.30	0.00	0.00	0.00
30	941	802	640	494	378	289	225	179	143	109	76.0	48.5	25.8	10.0	0.51	0.00	0.00	0.00
35	696	637	542	441	352	280	223	181	146	114	83.6	56.6	33.7	15.6	3.48	0.00	0.00	0.00
40	391	362	322	278	236	200	169	139	111	82.6	57.7	36.3	18.0	5.38	0.00	0.00	0.00	0.00
45	302	291	269	241	212	184	158	134	109	84.7	62.1	41.8	23.6	9.67	0.85	0.00	0.00	0.00
50	202	195	183	169	153	137	118	97.3	77.5	59.1	41.8	24.7	11.6	0.80	0.00	0.00	0.00	0.00
55	158	156	149	139	128	116	103	88.6	73.3	57.9	42.4	27.8	14.7	3.65	0.00	0.00	0.00	0.00
60	112	109	104	96.4	88.5	79.9	71.2	61.5	50.7	38.0	25.4	14.5	4.10	0.00	0.00	0.00	0.00	0.00
65	80.0	78.7	75.7	71.8	67.8	63.4	57.8	50.8	42.8	33.4	22.8	12.9	5.15	0.27	0.00	0.00	0.00	0.00
70	46.6	45.0	43.3	42.5	42.0	40.5	36.2	30.8	24.1	16.2	7.91	0.74	0.00	0.00	0.00	0.00	0.00	0.00
75	24.2	23.6	22.5	22.4	23.0	22.3	20.2	17.0	14.2	10.5	6.43	2.44	0.00	0.00	0.00	0.00	0.00	0.00
80	1.24	0.87	1.35	3.25	3.47	1.92	0.12	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

$H(\beta)$ Range:-90 - 90DEG
 $H(\beta)$ Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.1DEG
 Operators:QC1
 Test Date:2023-12-28

$V(\beta)$ Range:-80 - 80DEG
 $V(\beta)$ Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks: