

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

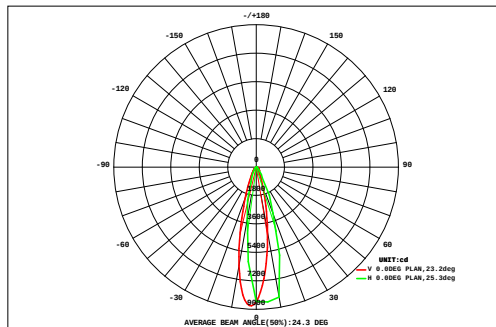
Maximum Intensity (Luminaire orientation as tested.)		3381.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	50.8V x 49.4H
	At 50% of Imax	25.0V x 23.2H
	At 90% of Imax	13.5V x 8.6H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	725.9 lumens per klm.
	To 50% of Imax	364.5 lumens per klm.
	To 90% of Imax	90.1 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:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:58.40lm/W	
MODEL	DKP-F170-24P-RDM-AL	Imax(cd)	8770
NOMINAL POWER(W)	44	AVAILABILITY(%)	72.9
RATED VOLTAGE(V)	120	Avai. FLUX(lm)	1890
NOMINAL FLUX(lm)	2593.28	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2593
TEST VOLTAGE(V)	120.3	θ @50%(H,V)	23,25DEG

		AREA FLUX DIAGRAM															UNIT:lm				Φ t	Φ a
		0.61	0.80	1.01	1.24	1.49	1.73	1.96	2.14	2.23	2.21	2.09	1.89	1.66	1.43	1.21	1.00	0.81	0.64	26.1	0.00	
VERTICAL (DEG)	45	0.61	0.80	1.01	1.24	1.49	1.73	1.96	2.14	2.23	2.21	2.09	1.89	1.66	1.43	1.21	1.00	0.81	0.64	26.1	0.00	
	40	0.76	1.00	1.26	1.56	1.87	2.19	2.49	2.71	2.79	2.72	2.52	2.24	1.92	1.62	1.35	1.11	0.88	0.68	31.7	0.00	
	35	0.83	1.12	1.49	1.94	2.52	3.25	4.07	4.82	5.23	5.13	4.56	3.76	2.96	2.30	1.77	1.38	1.07	0.83	49.0	0.00	
	30	1.03	1.40	1.88	2.51	3.35	4.42	5.62	6.64	7.09	6.74	5.76	4.56	3.45	2.58	1.92	1.47	1.13	0.86	62.4	13.8	
	25	1.05	1.49	2.13	3.10	4.70	7.34	11.3	16.0	19.0	18.4	14.5	9.71	6.13	3.92	2.63	1.86	1.36	1.01	126	97.7	
	20	1.28	1.87	2.76	4.23	6.79	11.1	17.6	24.5	28.0	25.5	18.6	11.7	6.95	4.24	2.76	1.91	1.37	1.01	172	147	
	15	1.23	1.81	2.75	4.43	7.75	14.4	26.1	41.2	52.4	51.7	38.9	23.0	11.8	6.21	3.61	2.32	1.59	1.14	292	270	
	10	1.47	2.23	3.54	6.07	11.4	22.2	40.4	61.4	73.6	67.2	46.5	25.1	12.0	6.10	3.50	2.24	1.53	1.09	388	366	
	5	1.29	1.94	3.00	4.95	8.81	16.6	31.2	50.6	64.4	62.2	46.5	27.7	14.0	7.02	3.94	2.47	1.68	1.19	350	328	
	0	1.49	2.29	3.65	6.26	11.5	21.9	39.7	59.5	67.4	57.1	38.5	21.6	10.8	5.60	3.30	2.16	1.51	1.08	355	334	
-15	1.20	1.76	2.63	4.06	6.59	11.0	18.4	28.1	35.2	34.6	26.9	17.3	9.82	5.51	3.36	2.22	1.54	1.11	211	187		
	1.29	1.88	2.79	4.23	6.50	9.73	13.3	15.5	15.4	13.4	10.3	7.29	5.08	3.56	2.49	1.78	1.30	0.96	117	85.8		
	1.01	1.42	1.99	2.81	4.00	5.71	7.99	10.5	12.1	11.9	9.95	7.32	5.02	3.42	2.40	1.74	1.28	0.95	91.4	58.9		
	1.02	1.39	1.89	2.50	3.19	3.81	4.06	3.79	3.33	2.99	2.79	2.72	2.48	2.09	1.69	1.33	1.04	0.79	42.9	2.17		
	0.78	1.06	1.39	1.80	2.31	2.90	3.51	4.03	4.29	4.19	3.77	3.19	2.57	2.04	1.60	1.26	0.98	0.75	42.4	0.00		
-30	0.74	0.98	1.21	1.46	1.71	1.91	2.02	2.03	1.99	1.92	1.85	1.73	1.55	1.35	1.15	0.95	0.76	0.59	25.9	0.00		
-35	0.55	0.73	0.92	1.13	1.34	1.56	1.75	1.89	1.96	1.93	1.82	1.65	1.44	1.23	1.04	0.86	0.69	0.54	23.0	0.00		
-40	0.48	0.61	0.75	0.88	0.98	1.07	1.13	1.16	1.17	1.14	1.09	1.02	0.94	0.84	0.73	0.62	0.51	0.40	15.5	0.00		
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL (DEG)				10	15	20	25	30	35	40	45		
Φ t	18.1	25.8	37.1	55.2	86.8	143	233	336	398	371	277	173	101	61.1	40.4	28.7	21.0	15.6	2421	---		
Φ a	0.00	0.00	0.00	8.29	52.2	115	205	311	374	345	250	147	67.6	14.6	0.00	0.00	0.00	0.00	---	1890		

one-half-peak spread: U:7.8,D:17.3 , L:11.8,R:11.6

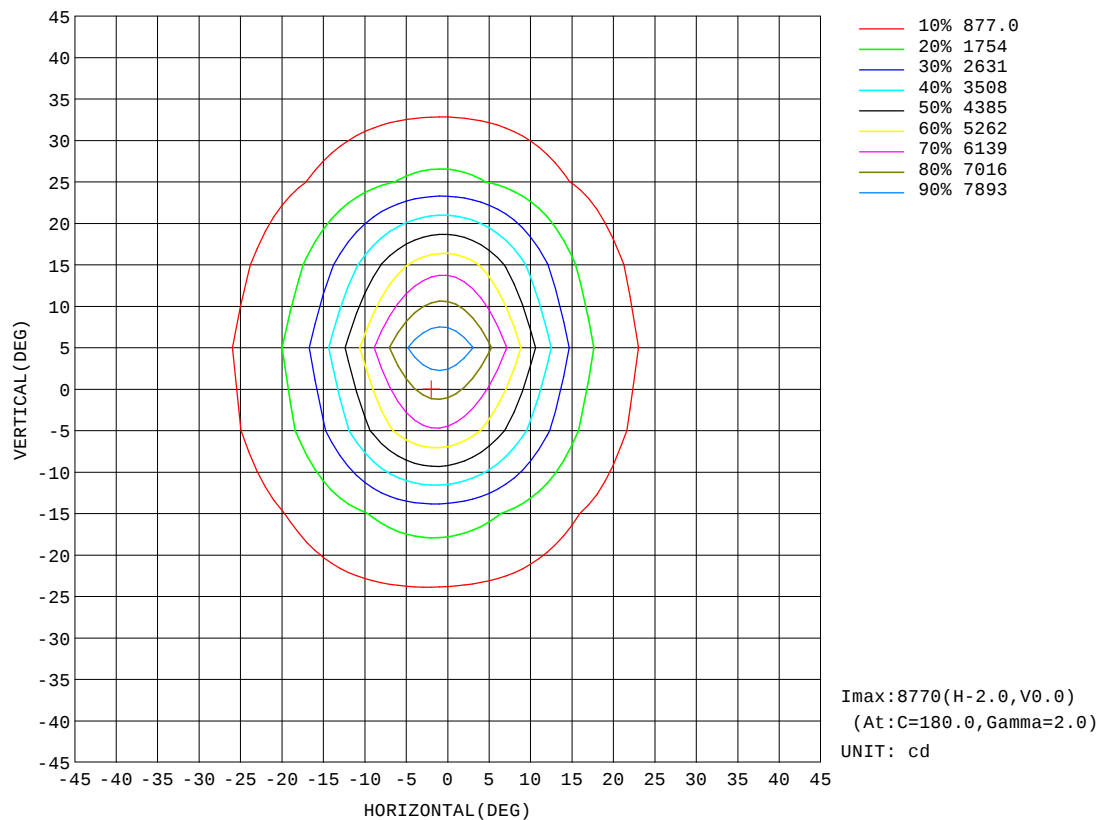
NEMA Beam Type: Type 4

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 G0-2000B_V1 SYSTEM V2.0.275
 Humidity:61%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.3V I:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

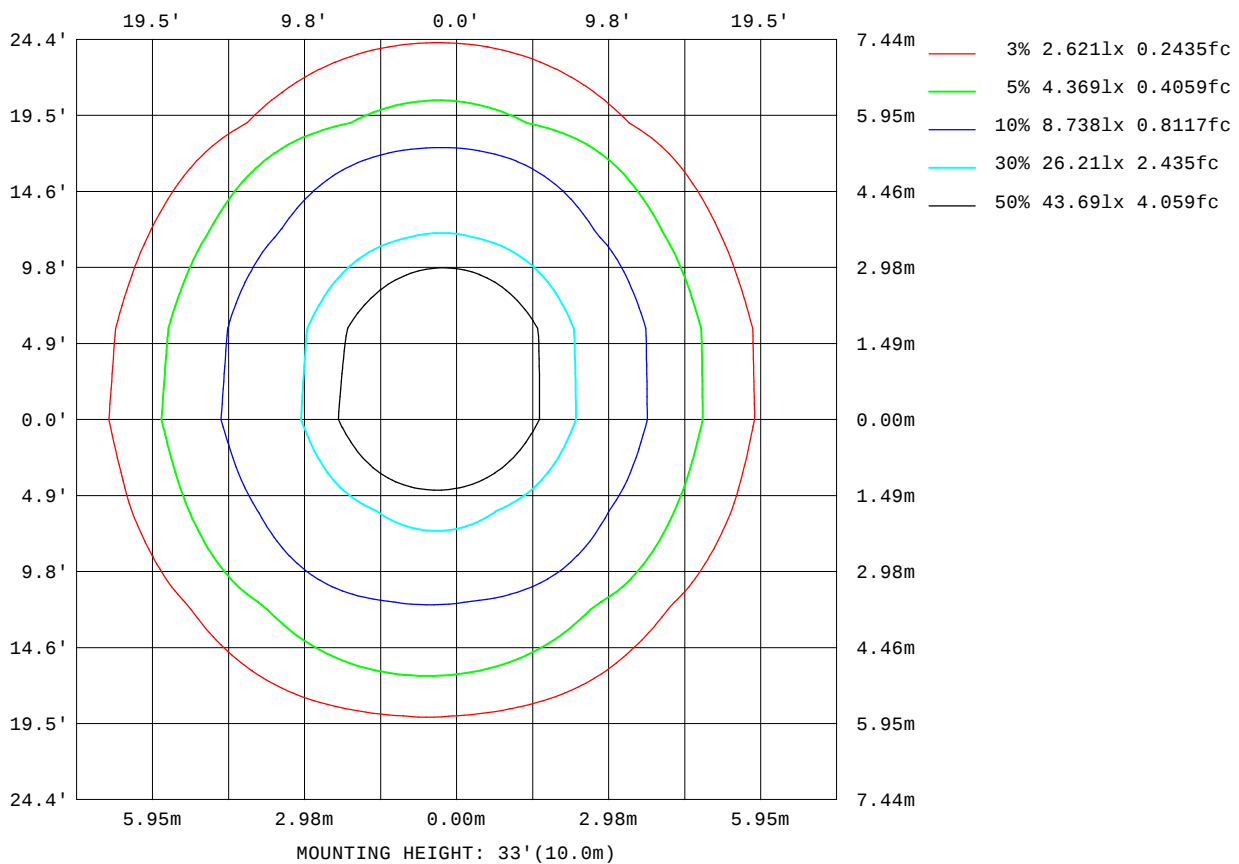


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

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:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

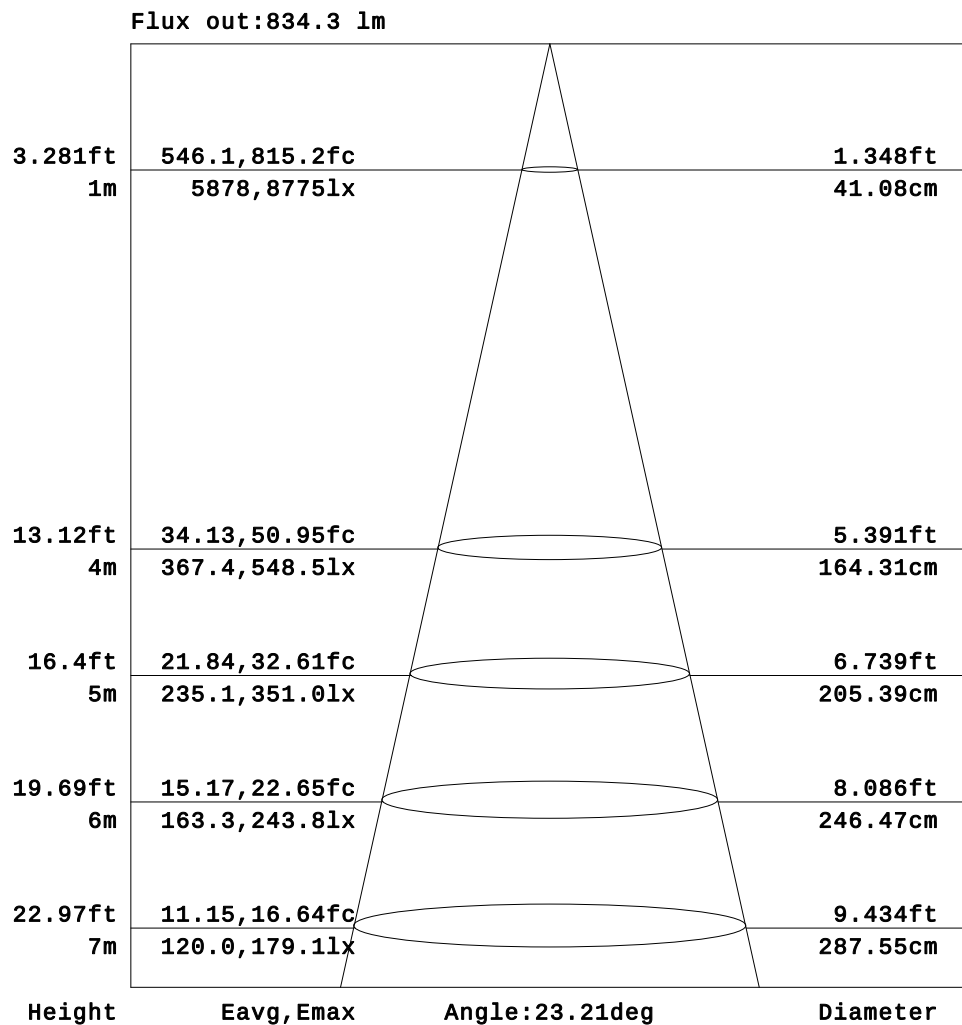


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.1DEG
Operators:QC1
Test Date:2023-12-28

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:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

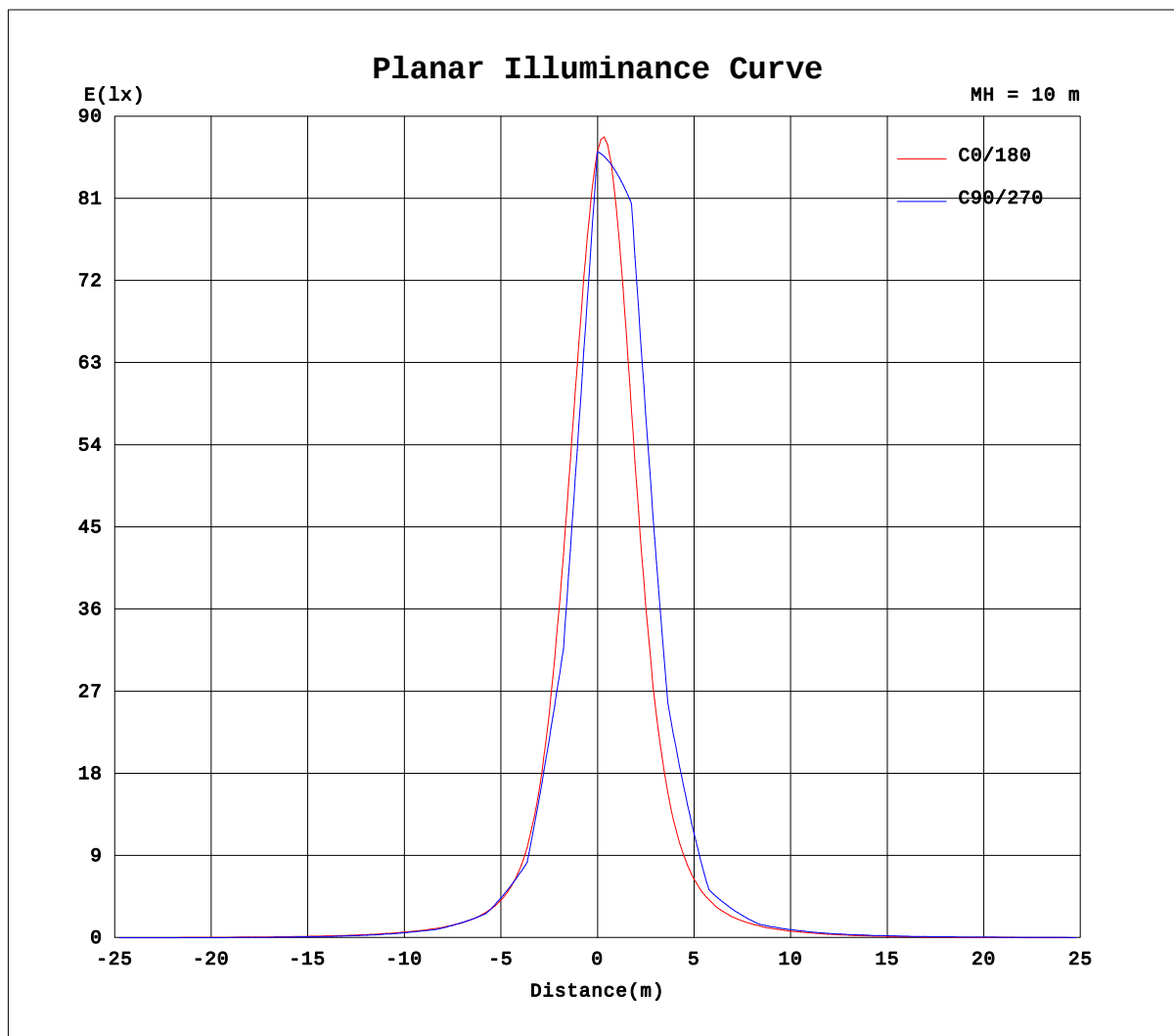


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G TYPE:LED		WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
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	2.96	6.90	10.5	13.6	16.3	18.3	19.4	19.8	20.2	21.0	21.6	21.8
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.47	7.53	15.3	22.3	28.4	33.5	37.2	39.1	39.8	40.7	42.3	43.4	43.6
-55	0.00	0.00	0.00	0.00	0.00	2.58	7.84	16.6	26.9	36.8	45.7	53.1	59.1	64.0	68.0	71.5	74.9	77.0	77.3
-50	0.00	0.00	0.00	0.00	0.00	7.30	17.9	29.7	42.4	55.1	66.1	75.2	83.2	90.6	97.5	104	109	111	111
-45	0.00	0.00	0.00	0.00	1.40	9.96	22.4	37.0	52.0	67.2	82.0	96.4	110	123	135	145	153	158	158
-40	0.00	0.00	0.00	0.00	4.93	17.4	32.5	50.2	67.5	85.3	104	123	142	160	176	191	201	205	204
-35	0.00	0.00	0.00	0.00	5.89	19.0	35.9	55.5	76.3	99.1	125	151	179	210	241	271	295	308	307
-30	0.00	0.00	0.00	0.76	11.6	26.6	47.0	68.9	93.6	123	156	190	228	272	318	363	397	413	407
-25	0.00	0.00	0.00	1.20	11.8	27.8	49.3	73.5	102	136	175	221	280	354	446	550	647	707	706
-20	0.00	0.00	0.00	4.37	17.7	36.9	60.7	88.7	123	164	211	272	358	470	614	779	929	1011	989
-15	0.00	0.00	0.00	3.26	16.5	35.7	60.4	89.5	126	171	225	301	414	587	856	1246	1722	2101	2168
-10	0.00	0.00	0.00	6.38	21.8	44.1	70.8	103	146	198	265	367	528	794	1233	1898	2700	3277	3281
-5	0.00	0.00	0.00	4.79	19.7	41.3	68.1	100	143	195	265	373	550	870	1469	2548	4163	5664	6007
0	0.00	0.00	0.00	7.95	24.8	48.9	77.2	113	159	216	302	435	672	1131	2048	3786	6316	8429	8501
5	0.00	0.00	0.00	5.22	20.9	43.2	70.5	103	147	200	275	392	592	974	1747	3234	5557	7838	8559
10	0.00	0.00	0.00	7.54	24.4	48.2	75.8	110	155	210	288	411	626	1043	1905	3508	5813	7875	8358
15	0.00	0.00	0.00	4.48	19.8	41.2	67.4	98.2	138	186	250	346	501	779	1317	2299	3774	5222	5778
20	0.00	0.00	0.00	6.34	22.3	44.6	70.4	101	139	185	244	331	461	675	1038	1615	2371	2990	3083
25	0.00	0.00	0.00	2.65	16.7	35.6	59.8	86.6	119	158	205	269	357	490	702	1026	1456	1842	1965
30	0.00	0.00	0.00	3.27	17.5	36.1	59.3	84.2	113	149	189	238	298	376	476	597	717	799	806
35	0.00	0.00	0.00	0.67	11.8	27.5	48.9	71.3	95.7	124	156	193	236	289	352	427	502	557	570
40	0.00	0.00	0.00	0.71	11.9	26.7	47.2	67.6	88.7	112	138	165	194	225	257	286	314	328	329
45	0.00	0.00	0.00	0.00	5.86	19.0	35.6	54.7	73.5	92.4	113	134	156	179	202	223	243	254	257
50	0.00	0.00	0.00	0.00	4.69	17.1	31.4	49.4	65.7	80.9	96.1	112	127	142	156	168	178	183	184
55	0.00	0.00	0.00	0.00	1.34	10.1	22.1	36.4	50.9	64.9	78.1	90.5	102	113	123	132	139	144	145
60	0.00	0.00	0.00	0.00	0.00	7.80	18.1	29.2	41.9	54.3	65.1	73.8	81.2	87.9	93.6	98.9	103	106	107
65	0.00	0.00	0.00	0.00	0.00	2.87	8.82	17.8	28.0	38.1	47.0	54.1	60.4	65.9	70.1	73.5	76.4	78.6	79.5
70	0.00	0.00	0.00	0.00	0.00	0.00	2.87	10.2	18.3	25.7	31.8	37.0	42.1	45.9	48.1	49.3	50.5	51.7	52.3
75	0.00	0.00	0.00	0.00	0.00	0.00	0.79	4.34	8.38	12.1	16.3	20.1	23.6	26.4	28.0	27.8	27.8	28.4	28.9
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.45	4.69	6.32	7.70	8.09	6.13	5.37	5.41	5.51
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(β) Range:-80 - 80DEG
 V(β) 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:0.5627A P:44.41W PF:0.6562 Lamp Flux:2593.28x1 lm		
NAME: 8.03.007.0153 30°SP-DKP-F170-24P-RDM-AL-G	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023120056
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	21.4	20.7	19.6	18.5	17.2	15.5	13.2	10.7	7.80	4.43	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	42.6	41.0	38.8	36.6	33.8	30.1	25.3	20.3	14.3	7.46	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	75.7	72.6	68.4	63.7	58.7	53.1	46.8	40.0	31.9	22.6	13.0	6.79	2.00	0.00	0.00	0.00	0.00	0.00
-50	108	103	96.1	88.9	81.5	73.7	65.6	56.7	46.0	33.8	22.0	11.6	2.13	0.00	0.00	0.00	0.00	0.00
-45	153	145	135	123	111	99.4	87.8	75.8	63.1	49.7	35.7	21.7	9.51	1.63	0.00	0.00	0.00	0.00
-40	196	184	169	153	136	121	105	89.8	74.9	59.9	43.8	26.5	12.5	1.38	0.00	0.00	0.00	0.00
-35	293	269	240	209	181	156	134	113	94.1	75.9	57.8	39.1	21.4	7.59	0.58	0.00	0.00	0.00
-30	381	342	298	253	215	182	154	129	106	84.6	64.5	44.3	24.0	9.28	0.19	0.00	0.00	0.00
-25	645	548	446	355	284	230	188	154	125	100	77.3	55.4	33.6	15.4	3.23	0.00	0.00	0.00
-20	873	713	554	425	328	259	208	168	135	107	81.3	57.9	34.7	15.7	3.27	0.00	0.00	0.00
-15	1880	1400	947	632	438	321	245	193	154	122	93.5	68.0	44.1	22.0	6.98	0.00	0.00	0.00
-10	2709	1889	1191	745	492	349	259	201	159	125	95.1	68.5	43.7	21.2	6.24	0.00	0.00	0.00
-5	4967	3345	1921	1051	620	410	294	223	175	136	104	76.1	50.8	26.4	9.38	0.13	0.00	0.00
0	6613	4162	2214	1124	640	414	295	223	174	134	102	73.3	47.6	23.6	7.42	0.00	0.00	0.00
5	7137	4677	2514	1274	705	445	313	233	181	141	108	78.9	53.1	28.1	10.2	0.31	0.00	0.00
10	6744	4214	2171	1110	634	410	291	219	171	134	102	73.9	48.3	24.1	7.74	0.00	0.00	0.00
15	4944	3309	1850	1009	599	397	288	219	172	135	104	76.1	51.2	26.8	9.51	0.19	0.00	0.00
20	2545	1747	1096	693	461	331	250	197	157	123	93.9	68.4	43.9	21.4	5.91	0.00	0.00	0.00
25	1721	1271	859	579	407	301	234	188	152	120	93.1	68.7	45.3	22.9	7.38	0.00	0.00	0.00
30	733	615	490	384	302	241	197	163	133	107	82.4	59.9	36.8	17.3	4.02	0.00	0.00	0.00
35	536	468	390	319	262	215	180	150	124	101	79.1	58.0	35.9	17.2	4.14	0.00	0.00	0.00
40	315	290	260	229	200	174	150	127	106	86.3	67.2	47.5	26.4	11.0	0.73	0.00	0.00	0.00
45	250	235	215	193	172	152	133	114	96.8	80.0	62.8	43.9	25.1	10.3	1.07	0.00	0.00	0.00
50	180	172	161	148	135	122	108	94.7	80.9	66.9	51.1	32.4	17.2	4.74	0.00	0.00	0.00	0.00
55	143	138	131	122	113	103	93.1	82.4	70.5	57.3	43.0	28.1	14.8	3.61	0.00	0.00	0.00	0.00
60	105	102	97.3	92.1	86.8	80.6	73.7	65.6	55.0	42.1	29.0	17.9	7.51	0.00	0.00	0.00	0.00	0.00
65	78.9	76.9	73.9	70.7	67.1	62.4	56.5	50.0	42.2	32.2	21.5	11.9	4.80	0.15	0.00	0.00	0.00	0.00
70	52.0	50.8	49.3	47.9	45.7	42.0	36.8	31.7	25.7	18.1	9.91	2.60	0.00	0.00	0.00	0.00	0.00	0.00
75	28.7	28.0	27.0	26.7	26.1	23.9	20.6	17.1	13.5	9.81	5.79	1.95	0.00	0.00	0.00	0.00	0.00	0.00
80	5.26	4.70	4.41	5.43	5.93	4.61	3.01	1.15	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: