

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

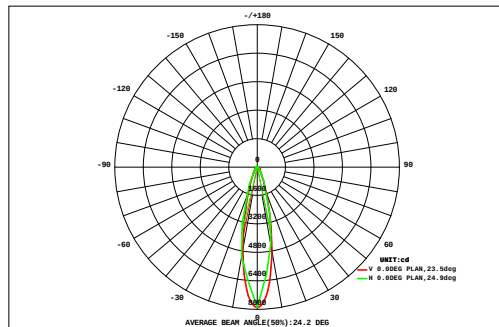
Maximum Intensity (Luminaire orientation as tested.)		3530.1 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	53.8V x 50.4H
	At 50% of Imax	24.9V x 23.5H
	At 90% of Imax	6.0V x 9.0H
Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	711.1 lumens per klm.
	To 50% of Imax	313.6 lumens per klm.
	To 90% of Imax	31.0 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:28.0DEG
Operators:QC1
Test Date:2024-08-29

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:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:46.75lm/W	
MODELSP-DKP-F170-24P-RDM	Imax(cd)	7884	
NOMINAL POWER(W)	48	AVAILABILITY(%)	71.5
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	1597
NOMINAL FLUX(lm)	2233.34	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	2233
TEST VOLTAGE(V)	220.4	θ @50%(H,V)	23, 25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm				Φ t	Φ a
	45	0.45	0.59	0.74	0.90	1.07	1.23	1.39	1.52	1.61	1.63	1.59	1.49	1.36	1.20	1.03	0.86	0.71	0.56	19.9	0.00
	40	0.62	0.79	0.98	1.18	1.39	1.60	1.79	1.94	2.02	2.00	1.91	1.75	1.55	1.34	1.13	0.93	0.74	0.58	24.2	0.00
	35	0.61	0.81	1.06	1.35	1.69	2.07	2.48	2.86	3.13	3.21	3.09	2.79	2.41	1.99	1.61	1.28	1.00	0.77	34.2	0.00
	30	0.81	1.07	1.40	1.80	2.29	2.84	3.40	3.87	4.12	4.09	3.78	3.28	2.72	2.16	1.70	1.32	1.01	0.76	42.4	0.00
	25	0.77	1.06	1.45	1.98	2.74	3.79	5.17	6.75	8.07	8.54	7.88	6.46	4.89	3.56	2.58	1.88	1.38	1.01	70.0	36.7
	20	1.02	1.42	1.98	2.83	4.04	5.74	7.95	10.2	11.7	11.5	9.79	7.42	5.27	3.67	2.58	1.84	1.32	0.94	91.2	63.3
	15	0.90	1.28	1.84	2.71	4.20	6.83	11.5	18.3	25.1	27.8	24.4	17.5	11.0	6.60	4.07	2.64	1.78	1.23	170	148
	10	1.19	1.74	2.60	4.06	6.72	11.7	20.2	31.1	38.9	38.1	29.2	18.6	10.7	6.07	3.66	2.36	1.57	1.08	229	208
	5	0.96	1.39	2.06	3.17	5.23	9.40	17.7	31.7	46.8	53.5	46.9	32.1	18.3	9.71	5.34	3.20	2.05	1.37	291	271
	0	1.24	1.85	2.88	4.76	8.55	16.5	31.4	51.3	65.5	63.4	46.9	27.5	14.1	7.17	4.05	2.50	1.65	1.12	352	333
	-5	0.93	1.33	1.92	2.87	4.50	7.59	13.7	24.4	37.3	44.7	41.2	29.2	17.2	9.37	5.23	3.14	2.01	1.34	248	227
	-10	1.15	1.66	2.46	3.83	6.33	11.0	18.8	27.8	33.7	32.2	24.0	14.9	8.65	5.20	3.29	2.17	1.46	1.02	200	178
	-15	0.82	1.13	1.57	2.20	3.13	4.56	7.04	11.0	15.8	19.1	18.6	14.4	9.57	5.97	3.77	2.48	1.69	1.17	124	98.8
	-20	0.94	1.29	1.78	2.50	3.46	4.69	5.89	6.53	6.18	5.15	4.26	3.66	3.22	2.65	2.06	1.55	1.16	0.85	57.8	21.4
	-25	0.67	0.89	1.19	1.55	2.02	2.64	3.45	4.46	5.50	6.16	6.05	5.25	4.16	3.13	2.30	1.70	1.26	0.93	53.3	11.6
	-30	0.71	0.94	1.21	1.51	1.84	2.15	2.36	2.39	2.24	2.06	1.95	1.88	1.77	1.56	1.32	1.08	0.86	0.66	28.5	0.00
	-35	0.50	0.66	0.85	1.06	1.29	1.55	1.82	2.10	2.33	2.45	2.42	2.25	1.98	1.69	1.38	1.12	0.88	0.68	27.0	0.00
	-40	0.51	0.65	0.80	0.95	1.09	1.22	1.31	1.36	1.37	1.33	1.27	1.20	1.11	1.00	0.88	0.74	0.61	0.47	17.9	0.00
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)				10	15	20	25	30	35	40	45	
Φ t	14.8	20.6	28.8	41.2	61.6	97.0	157	240	311	327	275	192	120	74.0	48.0	32.8	23.1	16.6	2080	---	
Φ a	0.00	0.00	0.00	1.40	22.5	66.3	131	216	290	306	256	169	91.5	41.6	5.38	0.00	0.00	0.00	---	1597	

one-half-peak spread: U:13.4,D:11.8 , L:11.7,R:11.9

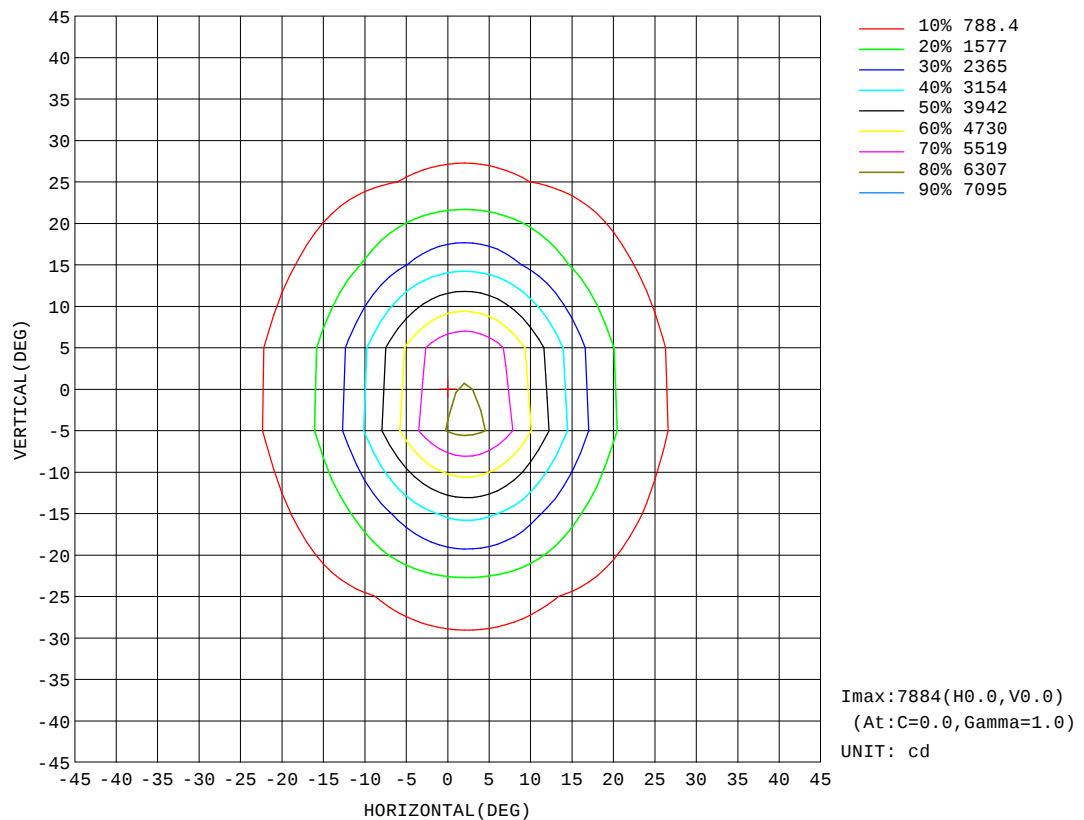
NEMA Beam Type: Type 4

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.4V I:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

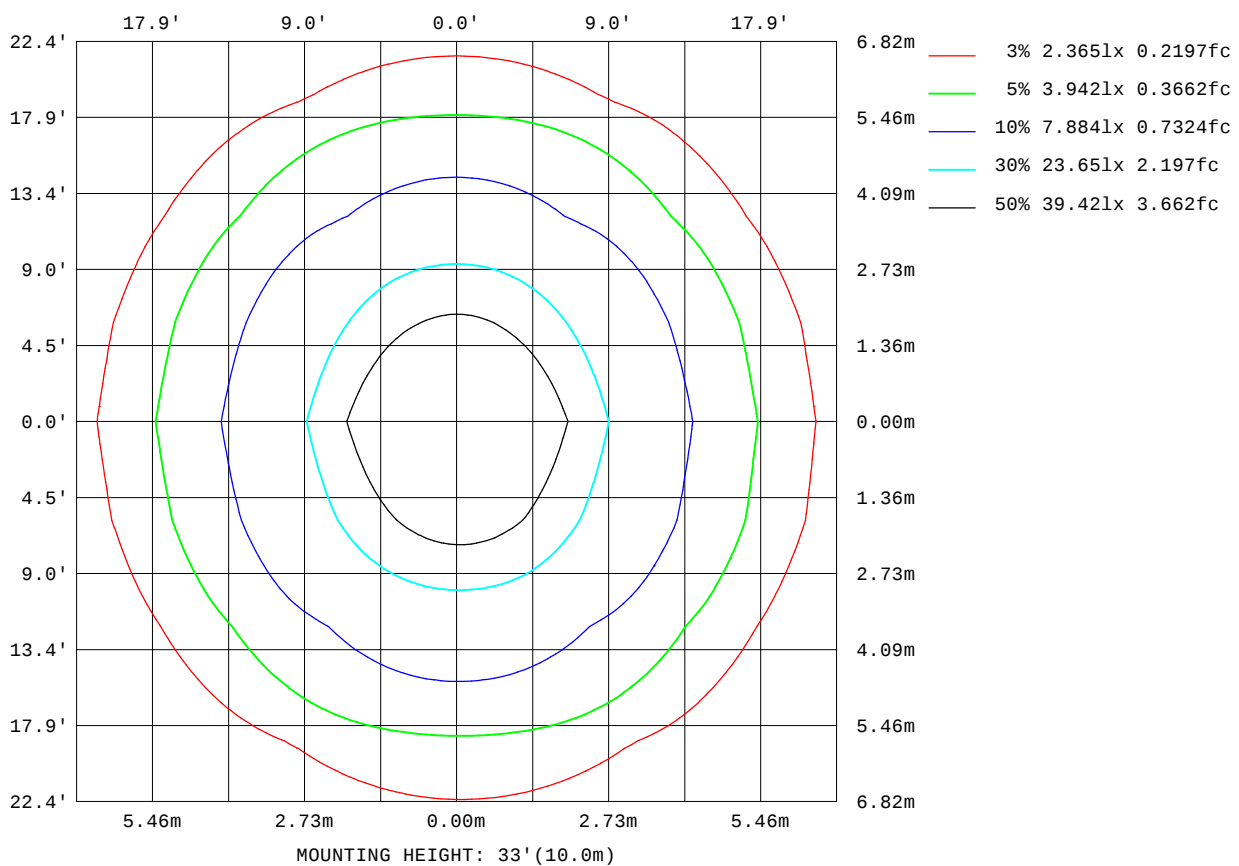


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 28.0DEG
Operators: QC1
Test Date: 2024-08-29

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:

ISOLUX DIAGRAM

Test:U:220.4V I:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

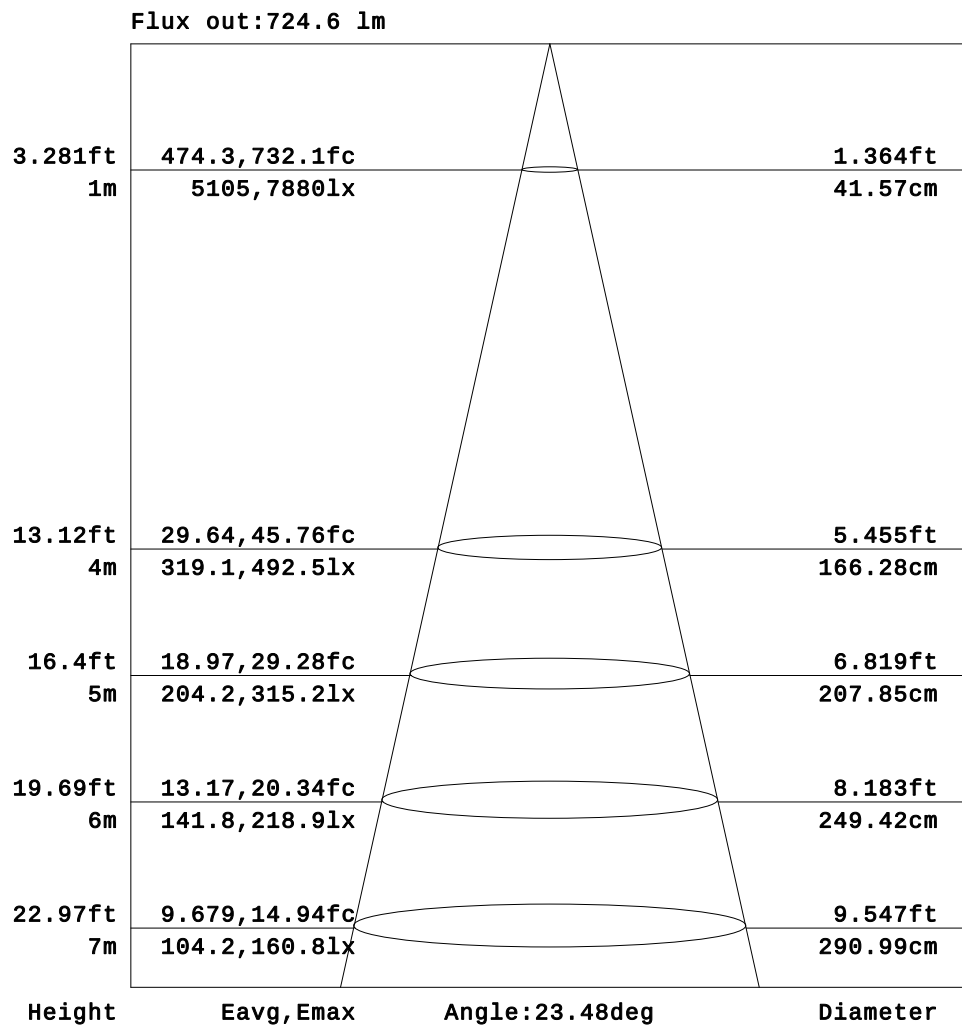


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

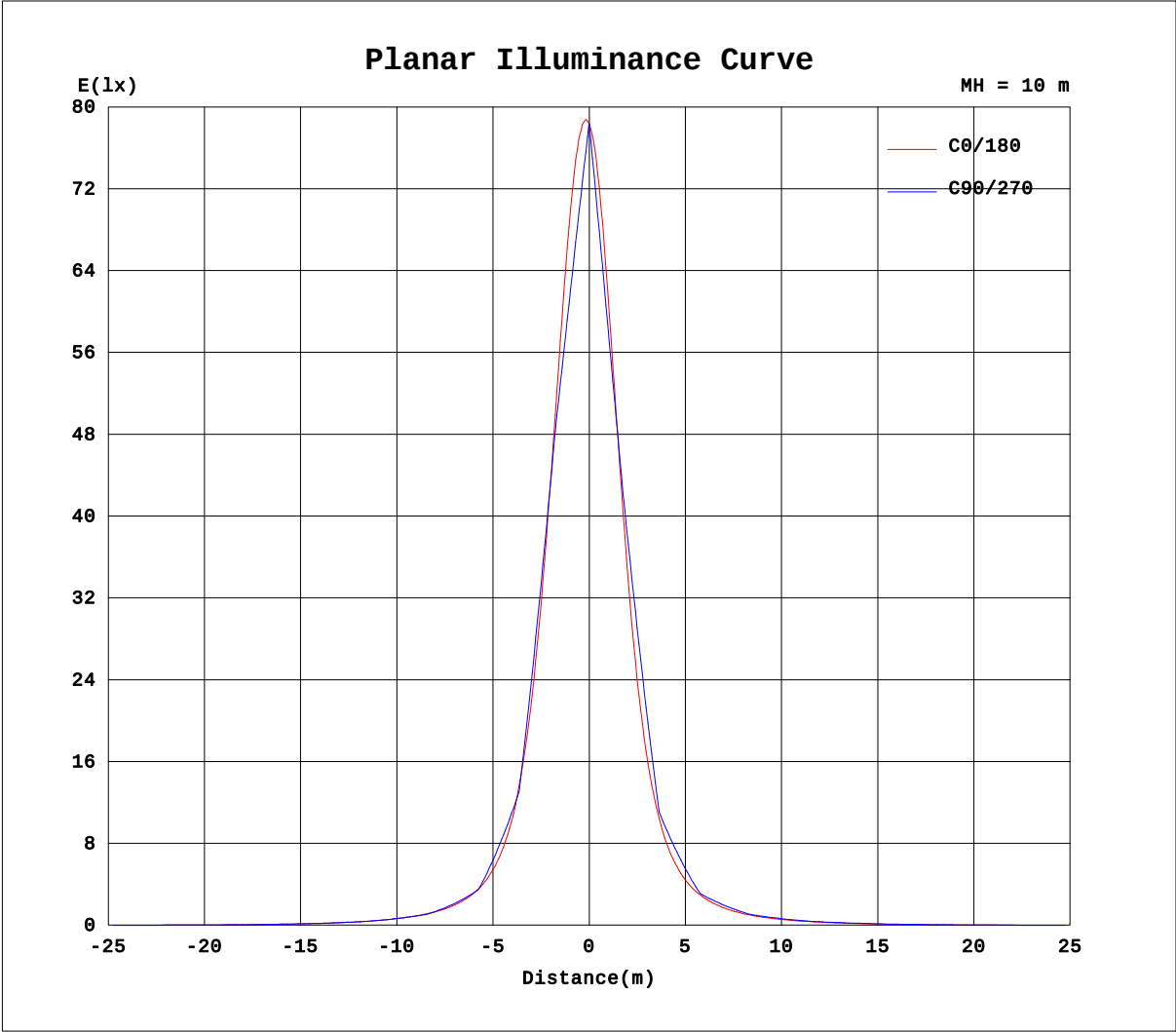


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.78	3.16	5.32	6.81	7.69	8.31	8.86	9.51	10.3	10.8
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.54	8.07	12.1	14.4	15.9	17.1	18.2	19.6	21.0	21.7
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.08	8.41	13.8	20.9	26.8	31.5	34.9	37.7	40.0	42.4	44.5	45.9
-60	0.00	0.00	0.00	0.00	0.00	0.00	2.48	11.7	20.3	29.9	38.7	45.6	51.5	56.3	60.2	63.7	67.0	69.4	70.4
-55	0.00	0.00	0.00	0.00	0.00	0.00	5.37	16.5	28.2	39.3	50.2	59.6	68.1	76.1	83.5	90.1	96.0	101	103
-50	0.00	0.00	0.00	0.00	0.00	3.08	15.8	30.9	44.9	57.6	69.5	80.6	91.4	102	112	122	129	134	137
-45	0.00	0.00	0.00	0.00	0.00	3.78	17.8	34.0	50.2	65.5	80.8	96.2	112	128	144	160	174	185	192
-40	0.00	0.00	0.00	0.00	0.00	13.6	32.4	50.3	67.9	85.7	105	124	144	166	188	210	229	243	248
-35	0.00	0.00	0.00	0.00	0.00	11.8	30.9	50.6	70.7	91.9	114	140	169	202	241	284	328	367	390
-30	0.00	0.00	0.00	0.00	5.39	24.4	45.3	66.7	90.2	116	144	179	219	268	327	394	461	514	537
-25	0.00	0.00	0.00	0.00	2.19	20.3	42.3	65.1	90.5	119	151	191	244	318	420	561	740	926	1047
-20	0.00	0.00	0.00	0.00	11.3	33.8	57.1	83.1	112	146	187	243	325	442	616	863	1173	1459	1586
-15	0.00	0.00	0.00	0.00	5.53	26.8	50.7	76.8	107	141	185	245	333	476	718	1139	1828	2660	3266
-10	0.00	0.00	0.00	0.00	14.7	38.7	64.4	93.7	127	170	225	308	441	672	1103	1912	3146	4453	5106
-5	0.00	0.00	0.00	0.00	7.41	30.1	55.4	83.6	116	155	206	281	402	610	1008	1789	3202	5019	6348
0	0.00	0.00	0.00	0.00	16.6	41.3	68.0	98.8	134	178	240	338	501	804	1417	2633	4682	6901	7884
5	0.00	0.00	0.00	0.00	7.24	30.1	55.4	83.8	116	155	206	281	400	603	989	1735	3075	4801	6041
10	0.00	0.00	0.00	0.00	14.4	38.6	64.5	94.1	128	170	225	306	434	652	1045	1745	2819	3943	4445
15	0.00	0.00	0.00	0.00	5.09	26.5	50.7	77.3	108	142	185	244	330	465	687	1059	1647	2352	2841
20	0.00	0.00	0.00	0.00	10.7	33.4	57.3	83.9	114	147	187	242	318	429	583	791	1035	1250	1340
25	0.00	0.00	0.00	0.00	1.91	19.5	41.8	65.4	91.6	120	152	191	243	312	405	527	672	815	904
30	0.00	0.00	0.00	0.00	4.60	23.3	44.6	67.1	91.6	118	145	179	217	263	317	375	429	469	484
35	0.00	0.00	0.00	0.00	0.01	10.6	29.7	50.0	71.3	93.7	117	142	170	201	237	276	313	344	361
40	0.00	0.00	0.00	0.00	0.00	12.2	30.9	49.6	68.5	88.1	108	127	147	167	188	207	224	236	240
45	0.00	0.00	0.00	0.00	0.00	3.14	16.1	32.5	49.7	66.4	83.0	99.3	115	131	146	161	174	184	189
50	0.00	0.00	0.00	0.00	0.00	1.62	13.8	29.2	44.1	58.0	71.2	84.0	95.9	107	117	125	132	137	138
55	0.00	0.00	0.00	0.00	0.00	0.00	4.40	14.5	26.8	38.7	50.5	61.1	70.7	79.4	87.0	93.6	99.4	104	106
60	0.00	0.00	0.00	0.00	0.00	0.00	0.66	9.86	18.8	29.0	38.6	46.1	52.5	58.2	62.8	66.8	70.3	72.7	73.6
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.10	7.60	12.4	19.7	26.1	31.3	35.2	38.3	41.0	43.5	45.8	47.1
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.54	6.19	10.6	13.3	14.9	16.0	17.1	18.7	20.2	21.0
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.20	4.44	6.22	7.16	7.78	8.33	9.00	9.81	10.4
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
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-08-29

V(β) Range:-80 - 80DEG
V(β) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:83%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.4V I:0.3383A P:47.77W PF:0.6408 Lamp Flux:2233.34x1 lm		
NAME: 8.03.007.0162 30° SP-DKP-F170-24P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024080128
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	10.8	10.5	10.1	9.84	9.59	9.06	8.12	6.55	4.43	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-70	21.4	20.6	19.9	19.5	18.9	17.4	15.2	11.5	6.86	1.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-65	46.0	45.0	43.4	41.7	39.9	37.3	33.8	29.2	23.1	15.6	8.90	4.28	0.00	0.00	0.00	0.00	0.00	0.00
-60	70.1	68.2	65.5	62.5	59.0	54.5	49.0	42.4	33.5	23.5	14.1	4.79	0.00	0.00	0.00	0.00	0.00	0.00
-55	103	101	97.0	91.5	85.2	77.9	70.1	61.6	51.7	40.5	28.9	16.7	5.26	0.00	0.00	0.00	0.00	0.00
-50	136	131	124	116	106	95.2	84.5	73.3	61.3	48.4	34.2	18.7	5.54	0.00	0.00	0.00	0.00	0.00
-45	192	186	175	161	145	128	113	96.8	81.1	65.5	49.7	33.1	16.4	2.85	0.00	0.00	0.00	0.00
-40	245	233	214	193	171	149	128	108	88.5	70.1	52.2	33.9	15.0	0.32	0.00	0.00	0.00	0.00
-35	390	367	329	285	240	201	168	139	113	90.4	69.0	48.7	28.6	9.81	0.00	0.00	0.00	0.00
-30	522	474	409	341	276	225	183	149	119	93.2	69.5	47.4	26.3	6.96	0.00	0.00	0.00	0.00
-25	1040	911	726	550	410	311	240	188	148	115	87.0	61.9	39.1	17.0	0.71	0.00	0.00	0.00
-20	1479	1206	896	639	456	333	250	192	148	114	83.9	57.8	34.2	11.8	0.00	0.00	0.00	0.00
-15	3245	2590	1748	1092	688	457	322	235	178	136	102	72.5	46.9	22.9	2.89	0.00	0.00	0.00
-10	4607	3283	2007	1166	703	456	313	228	171	129	95.5	66.0	40.3	16.2	0.00	0.00	0.00	0.00
-5	6240	4769	2971	1658	931	569	378	266	197	147	110	78.5	51.2	26.2	4.60	0.00	0.00	0.00
0	6948	4771	2724	1440	809	501	338	242	180	134	98.6	68.2	41.7	17.0	0.01	0.00	0.00	0.00
5	5902	4499	2823	1589	899	555	373	264	196	147	110	78.7	51.3	26.4	4.64	0.00	0.00	0.00
10	3940	2851	1784	1065	660	437	306	225	170	129	95.5	66.3	40.6	16.4	0.00	0.00	0.00	0.00
15	2785	2220	1530	980	634	432	311	231	175	135	102	73.0	47.4	23.3	3.00	0.00	0.00	0.00
20	1249	1029	781	574	422	317	243	188	146	113	84.3	58.4	34.7	12.0	0.00	0.00	0.00	0.00
25	891	786	637	495	379	294	231	183	145	114	87.1	62.5	39.7	17.3	0.79	0.00	0.00	0.00
30	469	428	374	314	261	216	178	146	118	93.0	69.7	47.8	26.7	6.97	0.00	0.00	0.00	0.00
35	358	338	305	268	228	194	163	137	112	90.1	68.9	48.7	28.7	9.75	0.00	0.00	0.00	0.00
40	236	224	207	187	167	146	127	107	88.5	70.0	51.8	33.5	14.8	0.17	0.00	0.00	0.00	0.00
45	188	182	171	158	143	128	112	96.7	81.0	65.2	49.1	32.4	15.8	2.73	0.00	0.00	0.00	0.00
50	137	132	125	117	107	97.0	85.7	73.5	60.8	47.6	33.3	17.6	4.51	0.00	0.00	0.00	0.00	0.00
55	106	103	98.8	93.3	86.7	79.3	70.9	61.6	51.0	39.5	27.5	15.3	4.71	0.00	0.00	0.00	0.00	0.00
60	73.0	71.0	68.0	64.6	60.3	55.1	48.9	41.6	32.2	21.8	12.0	3.16	0.00	0.00	0.00	0.00	0.00	0.00
65	47.2	46.1	44.4	42.4	40.0	36.9	33.0	28.0	21.6	14.0	7.88	3.32	0.00	0.00	0.00	0.00	0.00	0.00
70	20.8	20.0	19.3	18.5	17.4	15.7	13.4	9.82	5.18	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75	10.5	10.2	9.77	9.42	8.96	8.22	7.21	5.67	3.57	1.05	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:2024-08-29

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: