

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

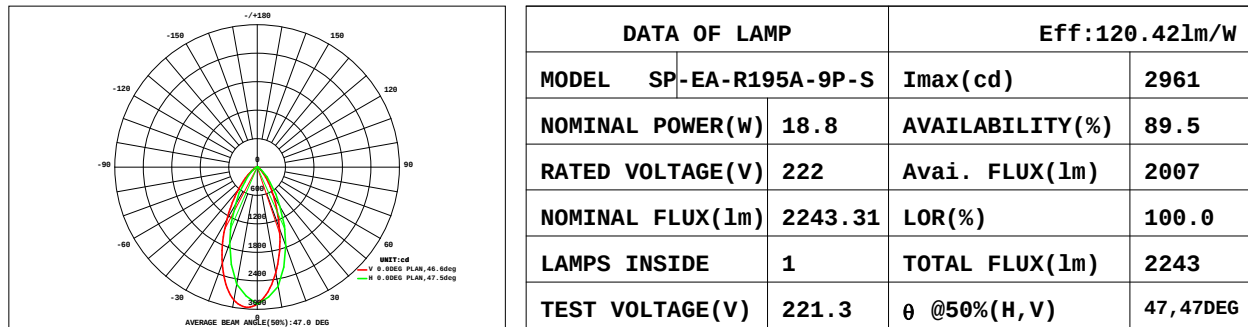
Maximum Intensity (Luminaire orientation as tested.)		1319.8 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	90.4V x 88.1H
	At 50% of Imax	47.3V x 46.6H
	At 90% of Imax	16.9V x 17.9H
Beam Flux	Total	999.8 lumens per klm.
	To 10% of Imax	892.1 lumens per klm.
	To 50% of Imax	477.4 lumens per klm.
	To 90% of Imax	74.5 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:2024-07-03

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

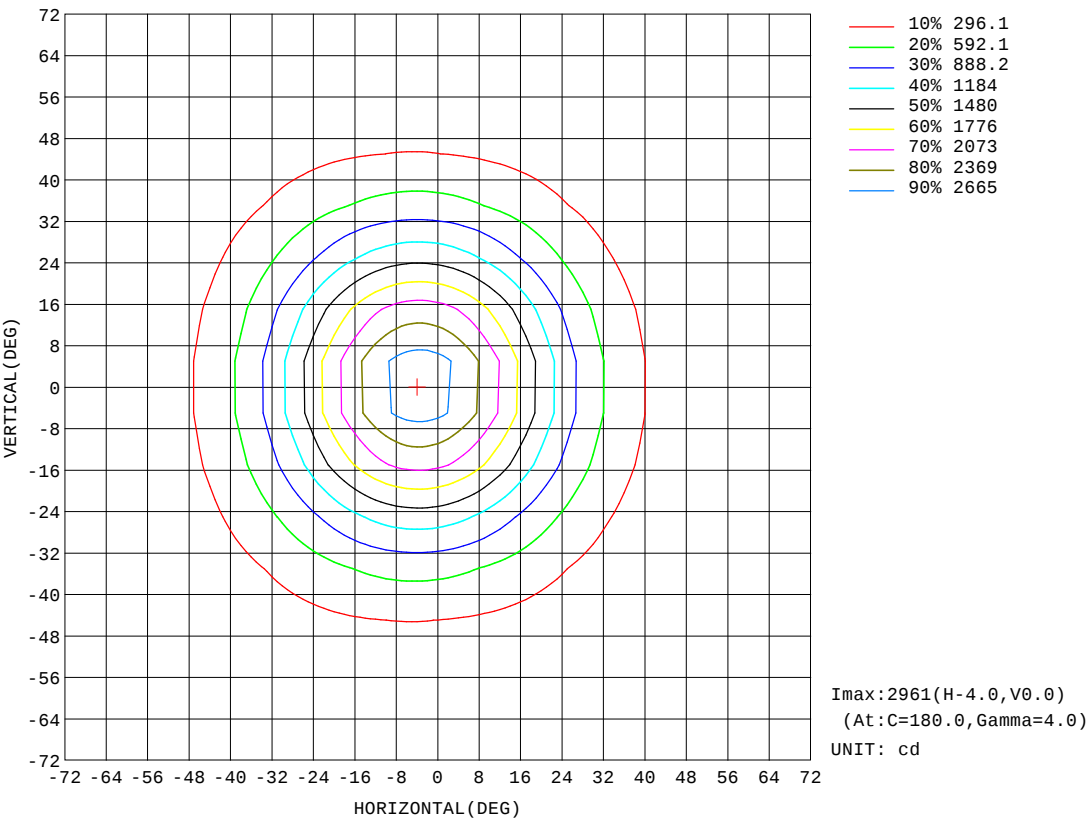
Test:U:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:



AREA FLUX DIAGRAM																	UNIT:lm	Φ t	Φ a	
72	0.00	0.00	0.01	0.06	0.16	0.26	0.34	0.38	0.38	0.32	0.21	0.09	0.03	0.02	0.01	0.00	0.00	0.00	2.28	0.00
64	0.00	0.05	0.20	0.39	0.62	0.85	1.06	1.18	1.21	1.12	0.95	0.71	0.46	0.24	0.07	0.00	0.00	0.00	9.13	0.00
56	0.03	0.16	0.41	0.77	1.23	1.75	2.28	2.66	2.79	2.61	2.19	1.66	1.13	0.67	0.33	0.11	0.00	0.00	20.8	0.00
48	0.07	0.30	0.68	1.29	2.20	3.37	4.65	5.62	5.98	5.58	4.58	3.34	2.18	1.28	0.68	0.29	0.05	0.00	42.1	16.0
40	0.14	0.46	1.05	2.10	3.83	6.22	8.94	11.0	11.8	10.9	8.74	6.11	3.76	2.10	1.06	0.47	0.13	0.00	78.8	62.2
32	0.20	0.61	1.47	3.18	6.21	10.5	15.5	19.5	21.2	19.6	15.4	10.5	6.16	3.21	1.55	0.67	0.23	0.01	136	124
24	0.24	0.75	1.89	4.38	8.99	15.9	24.4	31.9	35.0	32.1	24.8	16.3	9.34	4.69	2.10	0.88	0.31	0.03	214	204
	0.27	0.83	2.18	5.27	11.1	20.4	32.3	42.8	47.5	44.2	34.3	22.3	12.4	6.12	2.63	1.07	0.37	0.05	286	277
	0.29	0.90	2.40	5.93	12.7	23.6	37.7	50.1	55.8	51.7	40.2	25.9	14.2	6.91	2.92	1.16	0.40	0.06	333	325
	0.31	0.96	2.55	6.30	13.4	24.7	38.9	51.3	56.4	51.6	39.5	25.3	13.8	6.63	2.78	1.09	0.37	0.05	336	328
	0.29	0.89	2.31	5.54	11.6	21.1	33.1	43.4	47.6	43.7	33.8	21.9	12.2	5.96	2.54	1.03	0.35	0.05	287	279
	0.25	0.76	1.85	4.29	8.71	15.3	23.5	30.7	33.7	31.2	24.3	16.2	9.33	4.74	2.12	0.89	0.30	0.04	208	199
-24	0.20	0.61	1.43	3.10	6.04	10.3	15.3	19.5	21.3	19.8	15.7	10.8	6.40	3.38	1.61	0.71	0.24	0.02	137	124
-32	0.15	0.48	1.06	2.12	3.85	6.22	8.81	10.8	11.6	10.7	8.65	6.13	3.80	2.12	1.10	0.50	0.15	0.01	78.2	61.8
-40	0.10	0.35	0.75	1.38	2.27	3.38	4.57	5.37	5.52	5.03	4.11	3.03	2.02	1.23	0.67	0.29	0.06	0.00	40.1	7.77
-48	0.04	0.20	0.44	0.79	1.22	1.69	2.13	2.45	2.54	2.40	2.08	1.63	1.16	0.73	0.39	0.14	0.01	0.00	20.0	0.00
-56	0.00	0.07	0.22	0.42	0.65	0.90	1.13	1.29	1.34	1.27	1.10	0.85	0.58	0.33	0.13	0.03	0.00	0.00	10.3	0.00
-64	0.00	0.01	0.05	0.14	0.25	0.35	0.43	0.48	0.49	0.45	0.37	0.25	0.13	0.06	0.03	0.00	0.00	0.00	3.49	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	2.58	8.39	21.0	47.5	94.9	167	255	330	362	334	261	173	99.1	50.4	22.7	9.32	2.98	0.33	2242	---
Φ a	0.00	0.00	0.56	27.8	79.5	152	242	317	349	321	247	158	83.1	29.3	0.21	0.00	0.00	0.00	---	2007

ISOCANDELA DIAGRAM

Test:U:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

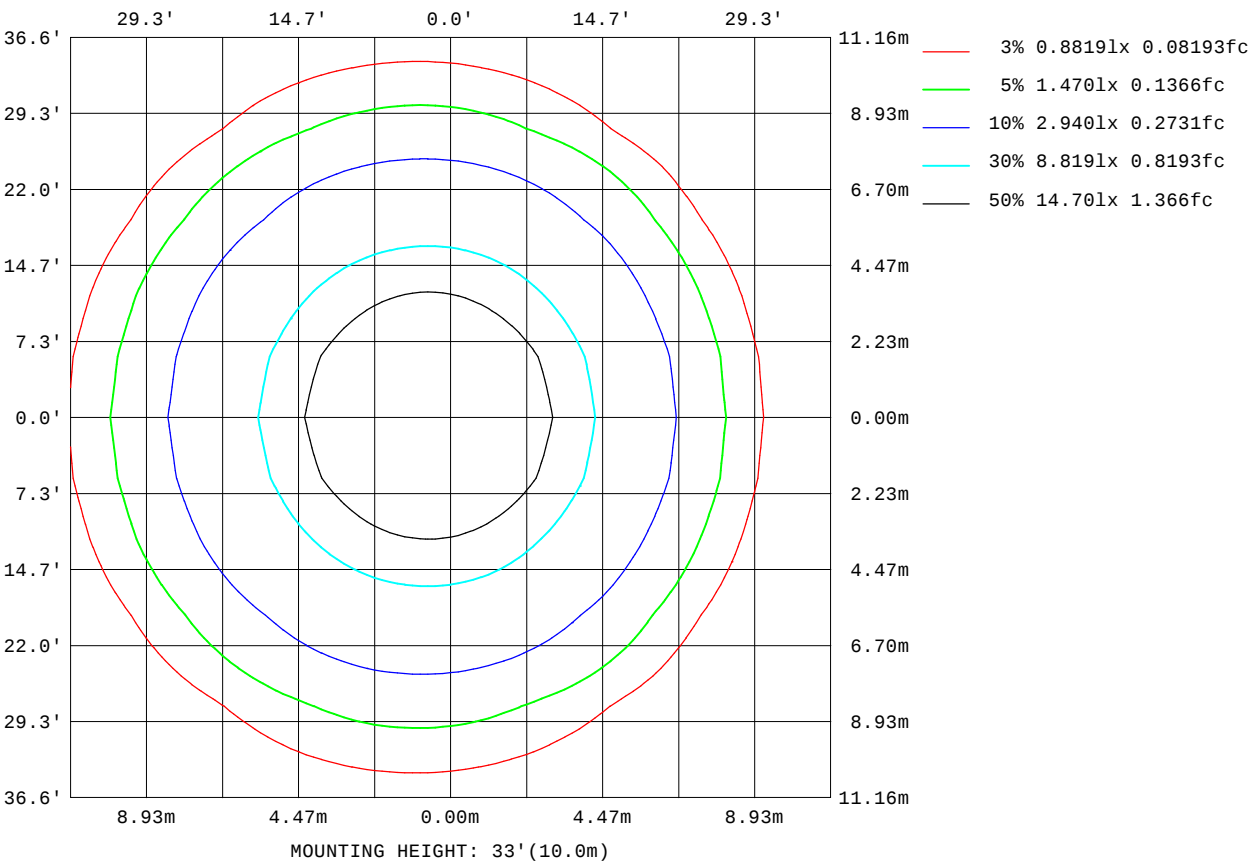


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-03

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:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

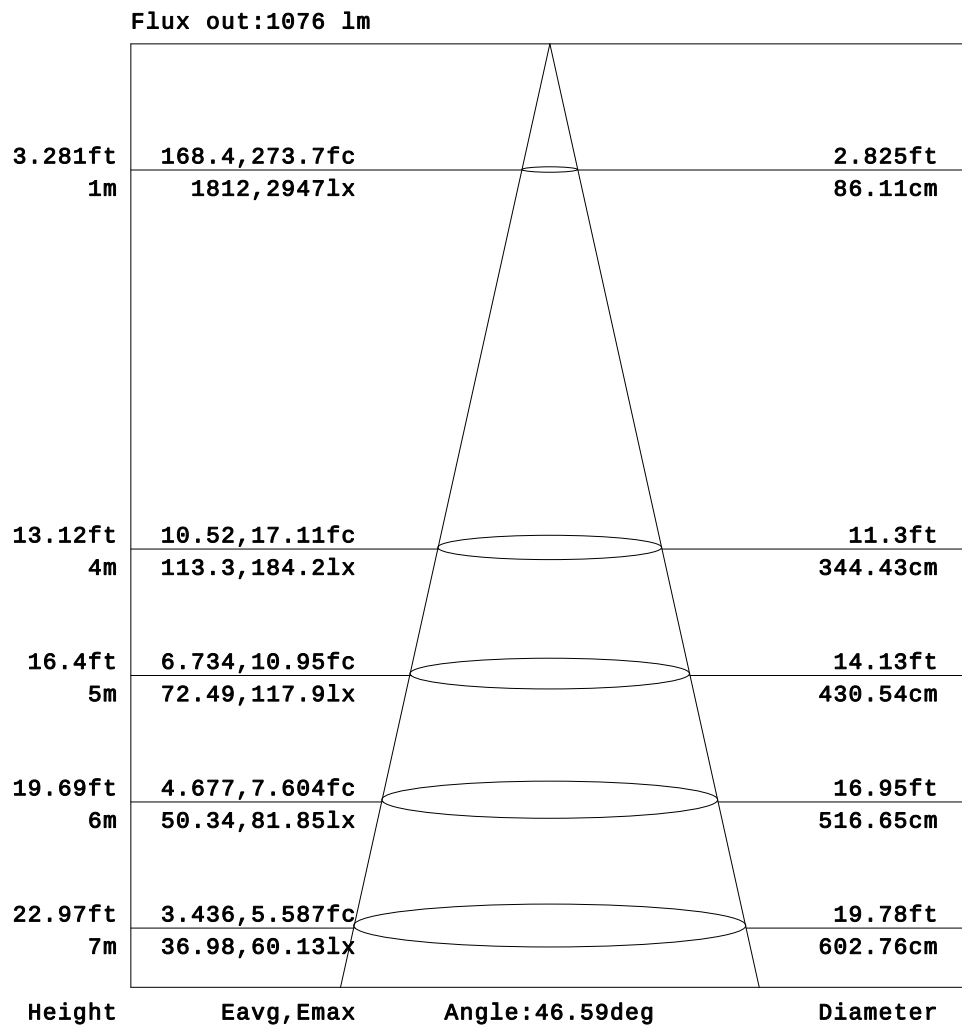


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-03

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:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION ANGLE:

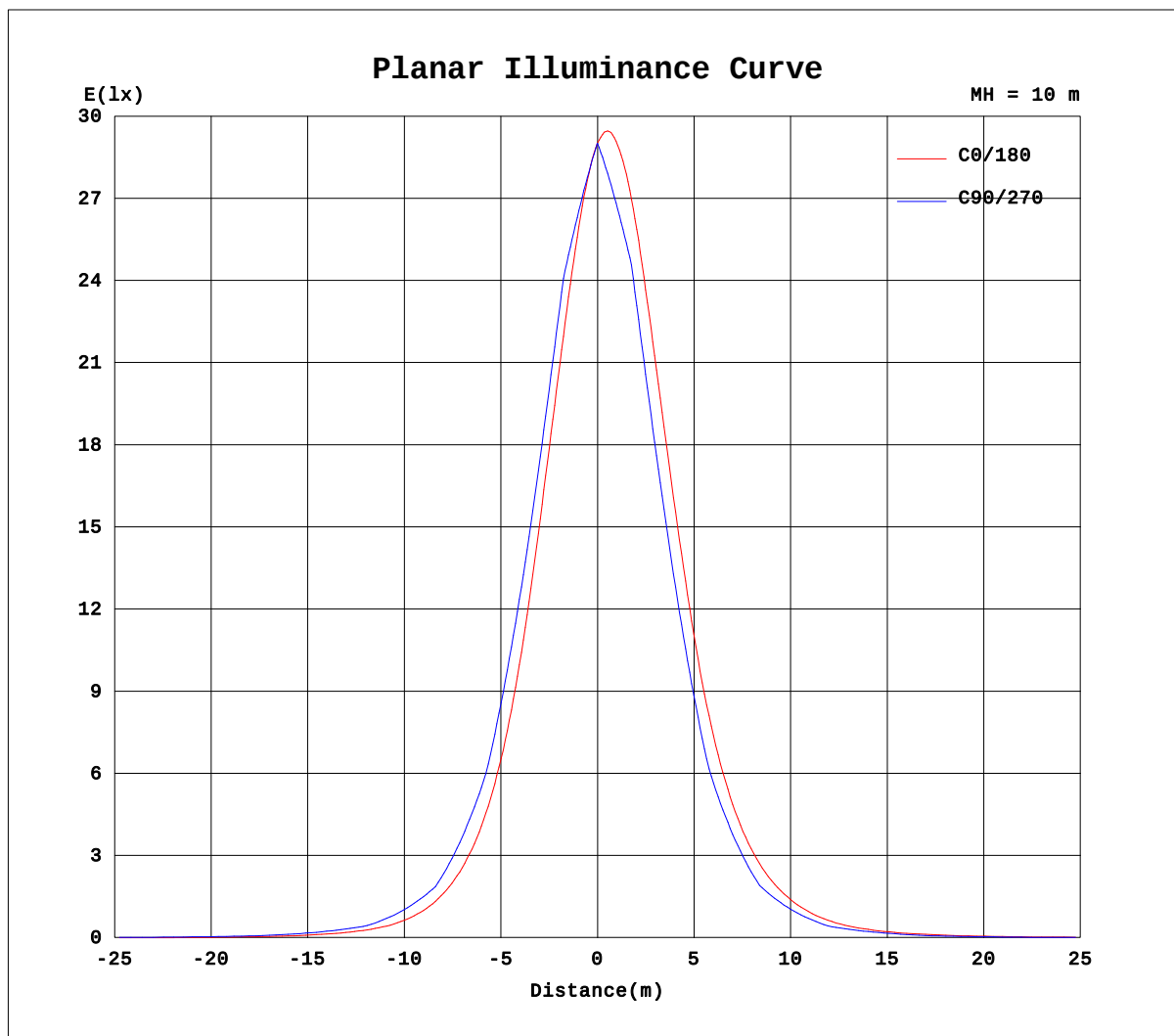


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:28.0DEG
Operators:QC1
Test Date:2024-07-03

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: 2024-07-03

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:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
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	0.44	2.33	3.96	5.44	6.68	7.73	8.47	8.98	9.20	9.13	8.72
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	5.36	8.51	11.4	13.8	15.8	17.2	18.1	18.4	18.2	17.2
-65	0.00	0.00	0.00	0.00	0.00	0.06	3.41	7.07	11.0	16.4	21.7	26.9	31.6	35.9	39.5	42.1	43.6	43.8	42.6
-60	0.00	0.00	0.00	0.00	0.00	1.00	8.28	15.5	22.4	29.6	37.0	44.3	51.2	57.7	63.0	66.9	69.0	69.2	67.3
-55	0.00	0.00	0.00	0.00	0.47	5.68	14.5	23.6	33.5	44.4	56.3	68.7	81.5	93.7	105	114	119	121	118
-50	0.00	0.00	0.00	0.00	2.75	13.4	24.2	35.6	48.8	63.7	80.6	98.2	117	135	151	164	171	172	167
-45	0.00	0.00	0.00	0.00	5.11	17.6	30.5	45.6	63.4	85.5	111	143	177	213	249	277	296	301	294
-40	0.00	0.00	0.00	0.00	12.1	26.8	42.3	62.4	85.9	117	154	200	252	305	359	399	425	430	415
-35	0.00	0.00	0.00	0.76	13.3	29.3	47.7	71.4	102	145	202	273	356	446	535	612	665	686	674
-30	0.00	0.00	0.00	4.40	20.7	38.3	61.8	91.3	134	194	276	377	495	622	745	848	920	944	919
-25	0.00	0.00	0.00	3.88	20.5	39.6	65.2	98.6	149	224	331	464	627	809	997	1165	1289	1342	1322
-20	0.00	0.00	0.00	9.48	27.6	49.6	80.6	123	189	292	434	613	828	1071	1321	1539	1691	1746	1699
-15	0.00	0.00	0.00	7.24	25.3	47.4	79.0	123	194	307	463	669	927	1230	1554	1838	2056	2155	2124
-10	0.00	0.00	0.00	11.6	31.0	56.2	91.8	147	236	376	565	820	1142	1518	1907	2331	2480	2573	2508
-5	0.00	0.00	0.00	8.76	27.6	51.7	86.3	139	223	362	551	810	1141	1538	1960	2331	2622	2759	2722
0	0.00	0.00	0.00	12.8	32.7	59.3	96.9	158	256	415	629	920	1290	1730	2168	2557	2845	2960	2886
5	0.00	0.00	0.00	8.54	27.2	51.4	85.8	139	223	361	551	812	1147	1547	1970	2348	2641	2782	2748
10	0.00	0.00	0.00	11.2	30.2	55.5	90.9	147	236	376	568	827	1155	1536	1931	2273	2520	2620	2559
15	0.00	0.00	0.00	6.65	24.0	46.3	77.4	123	194	306	465	676	941	1251	1581	1876	2102	2211	2181
20	0.00	0.00	0.00	8.54	25.8	48.0	78.8	124	189	292	438	622	844	1099	1357	1586	1748	1813	1762
25	0.00	0.00	0.00	3.40	18.6	37.4	62.7	97.5	148	224	332	471	638	826	1021	1195	1326	1388	1367
30	0.00	0.00	0.00	3.97	18.3	35.8	58.6	89.1	132	194	276	382	504	632	760	868	941	969	945
35	0.00	0.00	0.00	0.65	11.6	26.5	44.9	68.6	101	144	201	275	360	452	545	624	679	703	692
4																			

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.3V I:0.1386A P:18.63W PF:0.6074 Lamp Flux:2243.31x1 lm		
NAME: 8.03.011.0105 40° SP-EA-R195A-9P-S	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2024070007
MFR.: TPK OPTOELECTRONIC TECH CO., LTD	SUR.:	PROTECTION 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	7.98	6.90	5.42	3.66	1.56	0.00	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	15.6	13.3	10.2	6.50	2.26	0.00	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	40.3	36.8	32.3	27.0	20.9	15.4	11.3	7.33	3.56	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	63.7	58.7	52.4	45.1	37.2	29.2	21.0	13.1	5.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-55	112	103	92.3	79.6	66.5	53.7	41.4	29.9	19.5	10.3	4.76	0.05	0.00	0.00	0.00	0.00	0.00	0.00	
-50	158	144	127	109	90.6	73.2	57.0	42.4	29.4	17.9	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-45	276	249	216	181	146	114	87.4	64.6	46.1	30.3	17.2	5.83	0.08	0.00	0.00	0.00	0.00	0.00	
-40	384	341	291	239	189	144	108	78.9	55.9	37.0	22.0	9.01	0.00	0.00	0.00	0.00	0.00	0.00	
-35	628	559	473	383	297	220	160	113	78.6	52.8	32.7	17.1	3.80	0.00	0.00	0.00	0.00	0.00	
-30	848	743	620	492	373	269	191	131	90.0	59.5	36.7	19.4	4.54	0.00	0.00	0.00	0.00	0.00	
-25	1228	1076	893	703	530	382	266	179	117	77.2	47.8	27.1	10.4	0.00	0.00	0.00	0.00	0.00	
-20	1556	1337	1089	843	623	443	301	198	125	81.6	49.3	27.6	10.1	0.00	0.00	0.00	0.00	0.00	
-15	1967	1717	1410	1091	803	567	386	250	156	99.6	61.4	35.2	15.8	0.54	0.00	0.00	0.00	0.00	
-10	2293	1979	1599	1218	879	611	408	258	159	100	60.9	34.3	14.4	0.00	0.00	0.00	0.00	0.00	
-5	2520	2194	1798	1379	998	694	467	297	183	113	69.7	39.8	18.6	1.15	0.00	0.00	0.00	0.00	
0	2634	2259	1828	1379	983	675	447	283	173	107	64.3	36.2	15.3	0.01	0.00	0.00	0.00	0.00	
5	2548	2217	1814	1389	1003	697	468	298	185	114	70.2	40.1	18.7	0.97	0.00	0.00	0.00	0.00	
10	2346	2023	1629	1236	888	616	412	260	161	102	61.8	34.9	14.2	0.00	0.00	0.00	0.00	0.00	
15	2022	1761	1443	1113	815	574	389	251	158	101	62.4	36.0	15.6	0.35	0.00	0.00	0.00	0.00	
20	1610	1381	1122	866	637	450	305	200	127	82.7	50.5	28.4	9.49	0.00	0.00	0.00	0.00	0.00	
25	1267	1109	919	722	543	388	269	181	118	77.8	48.4	27.7	9.61	0.00	0.00	0.00	0.00	0.00	
30	871	764	636	505	382	273	193	134	90.6	59.5	37.0	19.5	2.85	0.00	0.00	0.00	0.00	0.00	
35	645	573	485	391	302	222	160	113	77.9	52.0	32.5	16.4	3.05	0.00	0.00	0.00	0.00	0.00	
40	394	349	296	240	188	143	107	77.3	53.7	35.7	21.4	7.21	0.00						