

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)	1330.9 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
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Beam Spread	At 10% of Imax	90.0V x 87.7H
	At 50% of Imax	47.1V x 46.6H
	At 90% of Imax	18.1V x 17.7H

Beam Flux	Total	999.6 lumens per klm.
	To 10% of Imax	904.2 lumens per klm.
	To 50% of Imax	483.2 lumens per klm.
	To 90% of Imax	84.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	100.0 %

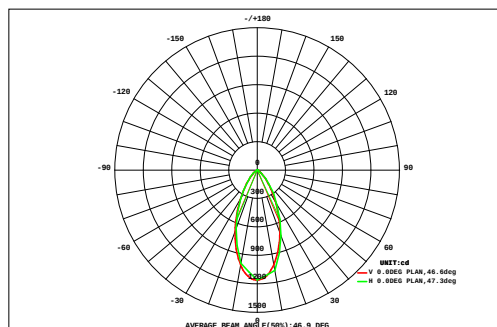
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.6DEG
Operators:QC1
Test Date:2023-04-18

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:78%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.8V I:0.1380A P:17.68W PF:0.5803 Lamp Flux:870.626x1 lm		
NAME: 8.03.011.0096 40°SP-EA-R195A-6P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023040017
MFR.: TPK	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:49.23lm/W	
MODEL SP-EA-R195A-6P-RDM	Imax(cd)	1159	
NOMINAL POWER(W)	18	AVAILABILITY(%)	90.7
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	789.9
NOMINAL FLUX(lm)	870.626	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	870.6
TEST VOLTAGE(V)	221.0	θ @50%(H,V)	47,47DEG

		AREA FLUX DIAGRAM														UNIT:lm				Φ t	Φ a	
		0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.20	0.00	
VERTICAL (DEG)	72	0.00	0.00	0.00	0.01	0.08	0.19	0.30	0.39	0.44	0.45	0.41	0.32	0.22	0.10	0.02	0.00	0.00	0.00	2.92	0.00	
	64	0.00	0.00	0.02	0.13	0.30	0.53	0.79	1.02	1.17	1.19	1.08	0.87	0.62	0.37	0.17	0.05	0.00	0.00	8.32	0.00	
	56	0.00	0.01	0.09	0.30	0.63	1.08	1.63	2.18	2.55	2.60	2.33	1.83	1.26	0.76	0.39	0.14	0.02	0.00	17.8	8.16	
	48	0.00	0.03	0.22	0.55	1.10	1.96	3.08	4.20	4.96	5.03	4.41	3.36	2.21	1.28	0.64	0.27	0.06	0.00	33.3	27.6	
	40	0.00	0.08	0.33	0.82	1.72	3.24	5.23	7.27	8.72	8.80	7.59	5.62	3.60	2.00	0.96	0.40	0.11	0.00	56.5	52.3	
	32	0.00	0.12	0.43	1.10	2.44	4.73	7.94	11.4	13.8	14.0	11.9	8.64	5.36	2.89	1.33	0.54	0.16	0.01	86.8	83.3	
	24	0.01	0.14	0.49	1.28	2.97	5.90	10.2	15.1	18.8	19.0	16.0	11.6	7.04	3.69	1.68	0.66	0.21	0.02	115	112	
	-24	0.01	0.16	0.54	1.42	3.32	6.73	11.8	17.5	21.7	21.9	18.4	13.2	7.95	4.12	1.86	0.72	0.22	0.02	132	128	
		0.01	0.17	0.57	1.49	3.46	7.04	12.3	17.7	21.4	21.5	17.8	12.6	7.60	3.95	1.76	0.67	0.20	0.02	130	127	
		0.01	0.14	0.50	1.29	2.98	5.90	10.1	14.5	17.6	18.2	15.0	10.8	6.67	3.52	1.60	0.62	0.19	0.01	110	106	
		0.00	0.10	0.39	0.98	2.19	4.20	7.02	10.1	12.2	12.6	10.9	8.00	5.08	2.78	1.29	0.51	0.15	0.01	78.4	74.8	
		-32	0.00	0.06	0.27	0.70	1.48	2.77	4.51	6.34	7.65	7.90	6.98	5.24	3.43	1.93	0.93	0.38	0.10	0.00	50.7	46.2
		-40	0.00	0.02	0.17	0.46	0.92	1.65	2.56	3.48	4.12	4.24	3.77	2.89	1.96	1.14	0.58	0.23	0.05	0.00	28.2	21.9
		-48	0.00	0.00	0.08	0.26	0.52	0.86	1.27	1.66	1.91	1.93	1.72	1.35	0.93	0.58	0.29	0.10	0.01	0.00	13.5	2.00
		-56	0.00	0.00	0.00	0.08	0.21	0.38	0.54	0.69	0.78	0.81	0.75	0.61	0.44	0.26	0.11	0.02	0.00	0.00	5.70	0.00
	-64	0.00	0.00	0.00	0.01	0.03	0.09	0.17	0.24	0.28	0.29	0.27	0.22	0.14	0.06	0.02	0.01	0.00	0.00	1.83	0.00	
-72	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.04	0.05	0.04	0.04	0.02	0.01	0.00	0.00	0.00	0.00	0.27	0.00		
		-72	-64	-56	-48	-40	-32	-24	-16	HORIZONTAL (DEG)				16	24	32	40	48	56	64	72	
Φ t	0.04	1.05	4.11	10.9	24.4	47.3	79.5	114	138	140	119	87.3	54.5	29.5	13.6	5.32	1.48	0.10	871	---		
Φ a	0.00	0.00	0.00	1.90	17.8	41.8	74.5	109	133	136	115	82.9	49.1	23.7	5.12	0.00	0.00	0.00	---	790		

one-half-peak spread: U:22.6,D:24.9 , L:22.2,R:24.8

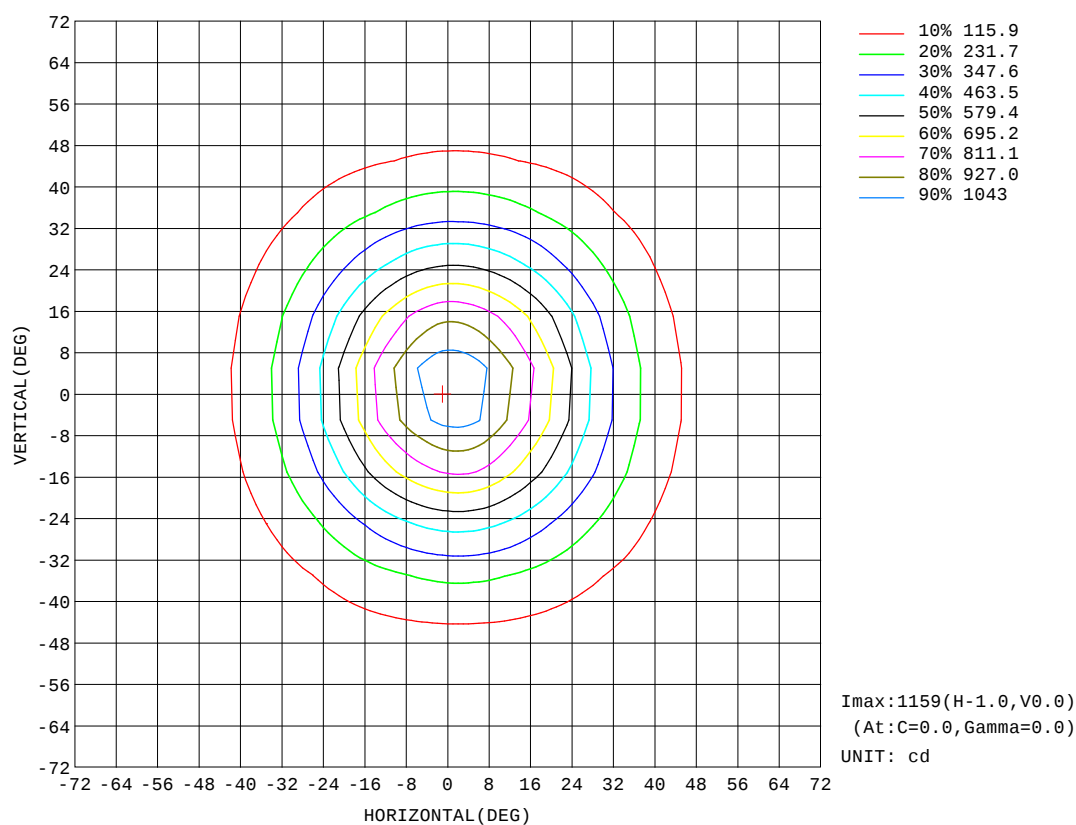
NEMA Beam Type: Type 5

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:27.6DEG
 Operators:QC1
 Test Date:2023-04-18

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:78%
 Test Distance:8.300m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.8V I:0.1380A P:17.68W PF:0.5803 Lamp Flux:870.626x1 lm		
NAME: 8.03.011.0096 40°SP-EA-R195A-6P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023040017
MFR.: TPK	SUR.:	PROTECTION ANGLE:

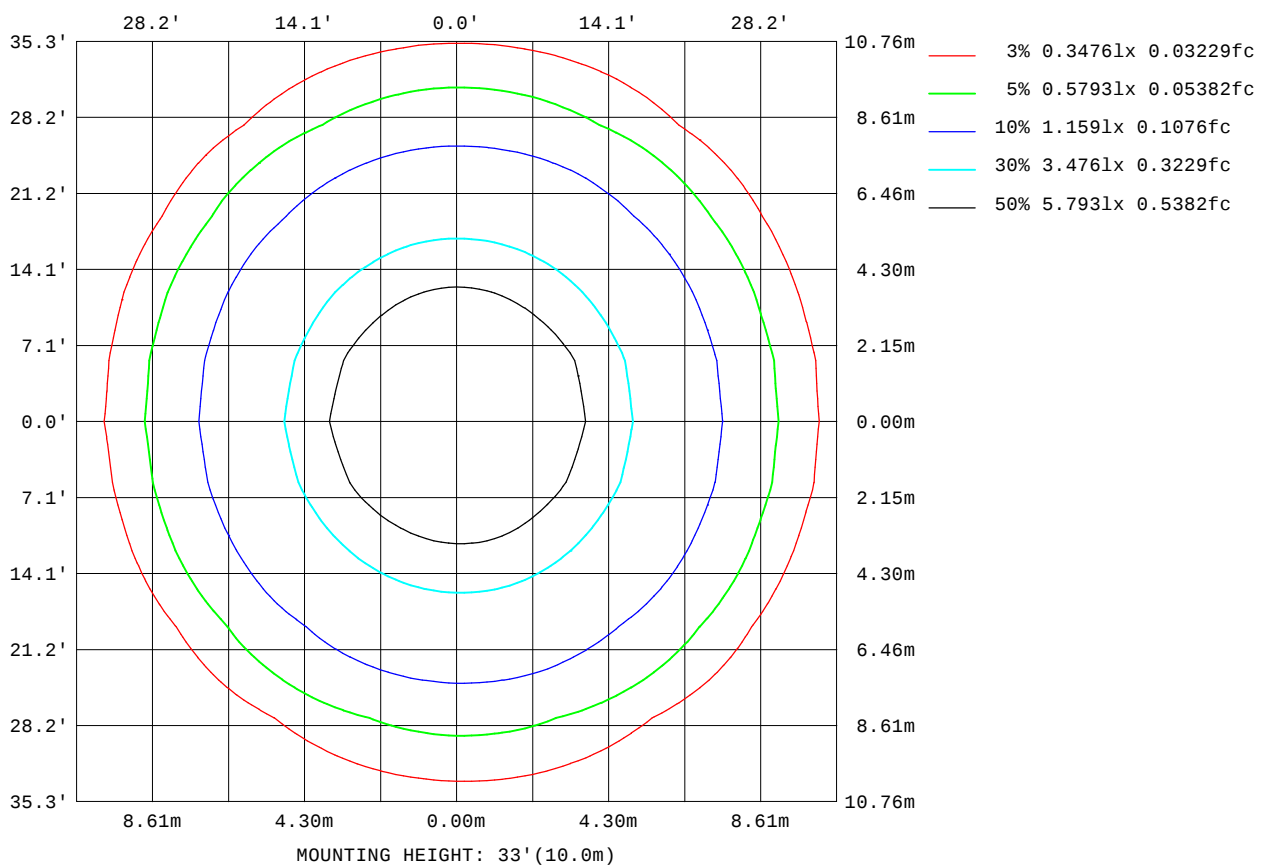


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H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.6DEG
Operators:QC1
Test Date:2023-04-18

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:78%
Test Distance:8.300m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.8V I:0.1380A P:17.68W PF:0.5803 Lamp Flux:870.626x1 lm		
NAME: 8.03.011.0096 40°SP-EA-R195A-6P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023040017
MFR.: TPK	SUR.:	PROTECTION ANGLE:



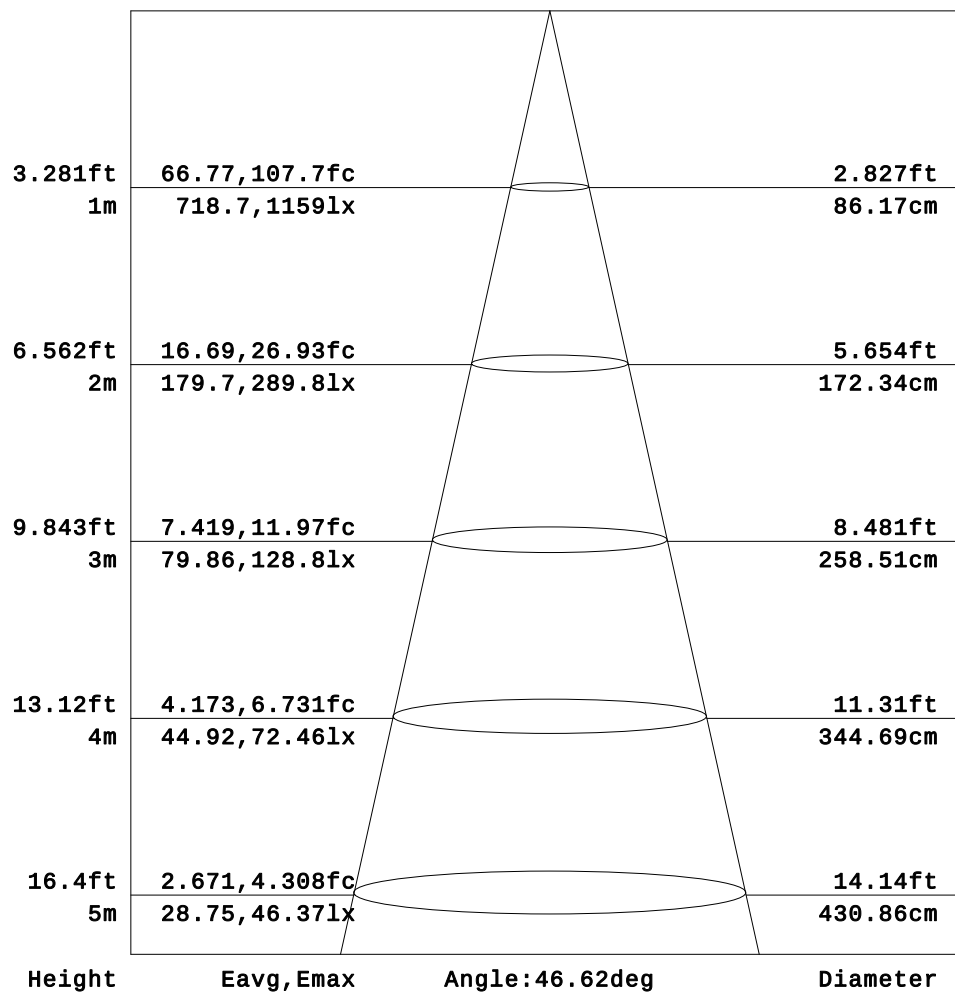
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.6DEG
Operators:QC1
Test Date:2023-04-18

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:78%
Test Distance:8.300m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.8V I:0.1380A P:17.68W PF:0.5803 Lamp Flux:870.626x1 lm		
NAME: 8.03.011.0096 40°SP-EA-R195A-6P-RDM	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:2023040017
MFR.: TPK	SUR.:	PROTECTION ANGLE:

Flux out:426.9 lm

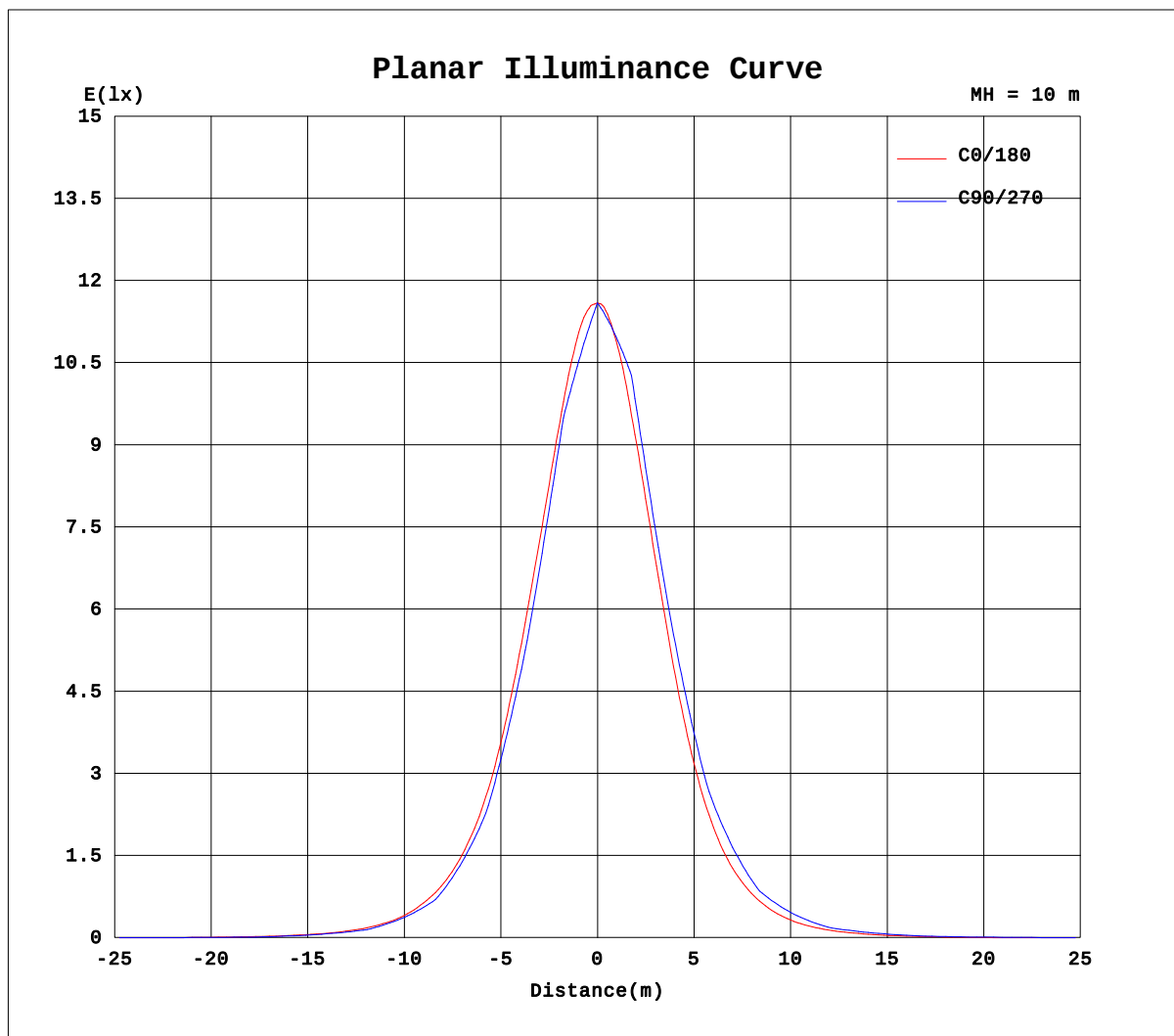


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:27.6DEG
Operators:QC1
Test Date:2023-04-18

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:78%
Test Distance:8.300m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
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Temperature:27.6DEG
Operators:QC1
Test Date:2023-04-18

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
Humidity:78%
Test Distance:8.300m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.8V I:0.1380A P:17.68W PF:0.5803 Lamp Flux:870.626x1 lm																	
NAME: 8.03.011.0096 40°SP-EA-R195A-6P-RDM									TYPE:LED			WEIGHT:					
DIM.:									SPEC.:			SERIAL No.:2023040017					
MFR.: TPK									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	0.00	0.00	0.00	0.00	0.34	1.90	3.36	4.67	5.80	6.61	7.20	7.51
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	4.40	7.26	9.82	12.0	13.5	14.6	15.1
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	3.18	6.06	9.58	14.5	19.5	24.1	28.4	32.1	34.7	36.0
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.14	7.47	13.4	19.8	26.6	33.6	40.3	46.5	51.9	55.5	57.2
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.31	6.62	13.9	22.2	32.0	43.2	55.5	68.6	81.5	93.0	101	106
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	13.8	23.5	34.8	48.5	64.5	82.5	102	121	138	150	155
-35	0.00	0.00	0.00	0.00	0.00	0.00	1.89	8.73	18.3	30.5	46.1	66.2	91.5	122	155	189	218	241	253
-30	0.00	0.00	0.00	0.00	0.00	0.00	5.49	14.9	27.1	43.2	64.6	93.1	130	174	221	269	308	338	352
-25	0.00	0.00	0.00	0.00	0.00	0.17	6.59	17.1	31.1	50.4	77.5	116	165	226	294	366	429	477	502
-20	0.00	0.00	0.00	0.00	0.00	1.56	11.5	24.2	41.7	66.9	104	157	222	306	397	491	571	630	655
-15	0.00	0.00	0.00	0.00	0.00	1.19	11.1	24.3	42.5	69.7	111	171	250	350	466	588	694	773	822
-10	0.00	0.00	0.00	0.00	0.00	4.08	15.4	30.6	52.6	86.1	139	214	314	439	584	732	853	943	996
-5	0.00	0.00	0.00	0.00	0.00	2.68	13.9	28.7	50.0	83.0	135	209	312	445	603	765	909	1016	1075
0	0.00	0.00	0.00	0.00	0.00	5.40	17.5	34.0	58.4	96.9	157	241	359	512	689	862	1014	1122	1159
5	0.00	0.00	0.00	0.00	0.00	2.87	14.2	29.2	50.9	84.7	138	214	318	454	616	786	938	1059	1117
10	0.00	0.00	0.00	0.00	0.00	4.53	16.1	31.8	54.6	90.0	146	222	326	457	611	774	917	1031	1073
15	0.00	0.00	0.00	0.00	0.00	1.60	12.1	25.8	45.0	74.0	118	182	266	374	500	635	757	856	905
20	0.00	0.00	0.00	0.00	0.00	2.44	12.9	26.3	45.1	72.9	114	171	246	338	443	548	642	711	737
25	0.00	0.00	0.00	0.00	0.00	0.38	7.99	19.3	34.3	55.7	86.4	129	186	256	335	415	489	546	573
30	0.00	0.00	0.00	0.00	0.00	0.01	7.18	17.5	30.9	49.1	74.0	107	152	203	259	313	362	398	411
35	0.00	0.00	0.00	0.00	0.00	0.00	2.79	11.1	21.8	35.6	53.9	77.7	108	145	185	225	260	288	300
40	0.00	0.00	0.00	0.00	0.00	0.00	1.15	8.56	17.6	28.6	42.3	59.0	78.9	102	127	151	171	185	191
45	0.00	0.00	0.00	0.00	0.00	0.00	0.12	3.50	9.83	18.2	28.2	40.1	53.8	69.4	86.3	103	117	127	132
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	5.20	11.4	18.5	26.3	34.7	43.4	52.2	60.3	67.1	71.8	73.6
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	5.05	9.32	15.1	21.1	27.2	33.2	38.7	43.4	46.6	48.2
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.33	6.17	9.92	13.4	16.6	19.2	21.2	22.6	23.1
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79	2.70	4.59	6.38	7.99	9.33	10.4	11.2	11.5
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
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
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
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 Test Speed: HIGH
 Temperature:27.6DEG
 Operators:QC1
 Test Date:2023-04-18

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:78%
 Test Distance:8.300m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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DIM.:	SPEC.:	SERIAL No.:2023040017
MFR.: TPK	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	7.60	7.35	6.76	5.85	4.67	3.25	1.70	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-60	15.2	14.5	13.2	11.3	8.81	5.90	2.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-55	36.3	34.9	32.2	28.6	24.1	19.1	13.9	8.77	5.37	2.44	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-50	57.2	54.5	50.0	44.2	37.5	30.2	23.0	15.9	9.51	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-45	106	101	91.8	80.0	67.0	53.9	41.5	30.0	20.0	11.4	4.57	0.85	0.00	0.00	0.00	0.00	0.00	0.00
-40	153	144	129	111	91.2	72.5	55.1	39.7	26.8	16.0	7.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00
-35	251	238	213	182	149	117	87.2	61.8	42.1	26.5	14.6	5.41	0.25	0.00	0.00	0.00	0.00	0.00
-30	347	324	285	240	194	149	108	75.0	50.5	31.7	17.7	7.21	0.00	0.00	0.00	0.00	0.00	0.00
-25	498	466	411	345	276	212	154	105	69.5	43.9	25.5	12.4	2.39	0.00	0.00	0.00	0.00	0.00
-20	641	589	512	423	331	250	178	119	76.7	47.7	27.3	13.1	2.28	0.00	0.00	0.00	0.00	0.00
-15	816	747	648	538	422	317	225	152	97.7	60.4	35.4	18.3	5.97	0.00	0.00	0.00	0.00	0.00
-10	971	866	740	605	469	345	241	161	101	61.5	35.6	18.1	5.37	0.00	0.00	0.00	0.00	0.00
-5	1060	964	829	684	531	390	274	184	117	70.9	41.6	22.0	8.21	0.00	0.00	0.00	0.00	0.00
0	1122	1011	861	701	531	384	266	177	110	66.6	38.4	19.6	6.39	0.00	0.00	0.00	0.00	0.00
5	1086	991	859	708	545	397	277	186	118	71.7	42.2	22.4	8.52	0.00	0.00	0.00	0.00	0.00
10	1021	923	799	650	493	356	245	164	103	63.0	36.8	18.8	5.91	0.00	0.00	0.00	0.00	0.00
15	880	805	704	582	451	332	234	158	101	62.7	37.1	19.6	6.80	0.00	0.00	0.00	0.00	0.00
20	715	653	564	462	358	265	189	126	80.8	50.5	29.4	14.6	3.22	0.00	0.00	0.00	0.00	0.00
25	564	522	460	383	303	229	166	113	74.4	47.3	28.1	14.2	3.42	0.00	0.00	0.00	0.00	0.00
30	400	370	327	272	217	165	120	82.9	55.5	35.4	20.6	9.09	0.30	0.00	0.00	0.00	0.00	0.00
35	297	278	249	211	172	133	98.4	69.6	47.4	30.6	17.6	7.46	0.75	0.00	0.00	0.00	0.00	0.00
40	187	175	158	135	109	85.5	64.3	46.5	31.9	19.9	10.3	2.20	0.00	0.00	0.00	0.00	0.00	0.00
45	131	124	113	98.1	81.6	64.9	49.6	36.2	24.7	15.2	7.13	1.88	0.00	0.00	0.00	0.00	0.00	0.00
50	72.5	68.8	62.8	55.3	46.9	37.9	29.2	21.0	13.5	6.95	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55	48.0	45.9	42.4	37.5	31.8	25.7	19.4	13.3	7.64	4.10	1.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60	22.9	21.9	20.1	17.6	14.4	10.9	7.13	3.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65	11.5	11.1	10.3	9.06	7.54	5.82	3.95	2.05	0.18	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
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
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:27.6DEG
 Operators:QC1
 Test Date:2023-04-18

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.275
 Humidity:78%
 Test Distance:8.300m [K=1.0000]
 Remarks: