

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973528

Luminaire Tested: FLR2-22-45-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-45-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

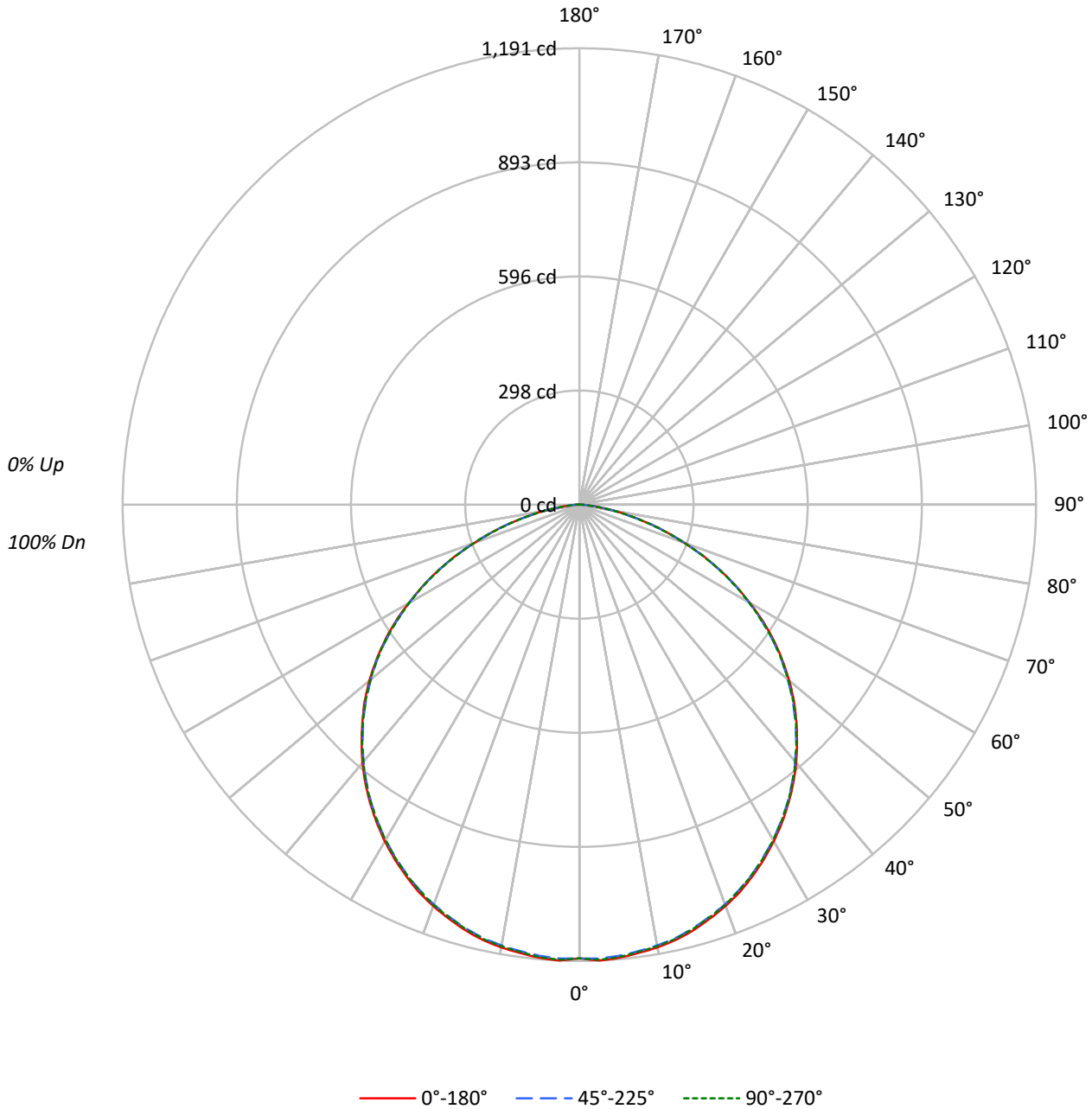
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3312.0 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3187	3187	3187
5°	3207	3193	3203
10°	3206	3192	3198
15°	3204	3189	3193
20°	3192	3180	3184
25°	3176	3162	3165
30°	3153	3139	3141
35°	3124	3112	3115
40°	3091	3076	3079
45°	3046	3032	3037
50°	2992	2971	2977
55°	2907	2883	2893
60°	2764	2752	2752
65°	2581	2576	2567
70°	2285	2297	2290
75°	1925	1909	1893
80°	1382	1361	1350
85°	722	722	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3046 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.4
10°-20°	322.5	9.7
20°-30°	490.1	14.8
30°-40°	592.4	17.9
40°-50°	614.9	18.6
50°-60°	549.7	16.6
60°-70°	399.7	12.1
70°-80°	196.5	5.9
80°-90°	34.1	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	924.8	27.9
0°-40°	1517.1	45.8
0°-60°	2681.7	81.0
0°-90°	3312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1184	1184	1184	1184	1184	
5°	1187	1173	1182	1178	1186	113
15°	1150	1137	1145	1142	1146	324
25°	1070	1058	1065	1063	1066	493
35°	951	944	947	948	948	595
45°	800	797	797	798	798	617
55°	620	616	614	616	617	552
65°	405	407	404	404	403	400
75°	185	186	184	184	182	196
85°	23	24	23	23	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.3	1184.3	1184.3	1184.3	1184.3
2.5°	1190.9	1177.0	1185.8	1180.7	1188.7
5°	1187.3	1173.4	1182.1	1177.7	1185.8
7.5°	1180.7	1166.8	1175.6	1171.2	1177.7
10°	1173.4	1158.7	1168.2	1163.9	1170.4
12.5°	1163.9	1150.0	1158.7	1155.1	1160.9
15°	1150.0	1136.8	1144.8	1141.9	1146.3
17.5°	1133.1	1120.0	1128.0	1125.8	1129.5
20°	1114.8	1102.4	1110.4	1108.3	1111.9
22.5°	1094.4	1081.2	1088.5	1087.0	1090.0
25°	1069.5	1057.8	1065.1	1062.9	1065.8
27.5°	1043.1	1032.2	1038.0	1038.0	1039.5
30°	1014.6	1004.4	1010.2	1010.2	1011.0
32.5°	983.9	975.8	979.5	980.2	980.2
35°	951.0	944.4	947.3	948.1	948.1
37.5°	916.6	910.0	912.2	913.7	913.7
40°	880.0	874.2	875.6	877.1	876.4
42.5°	840.5	836.1	836.9	838.3	838.3
45°	800.3	796.6	796.6	798.1	798.1
47.5°	759.3	755.7	754.2	755.7	755.7
50°	714.7	711.0	709.6	711.0	711.0
52.5°	667.9	664.2	664.2	664.2	665.0
55°	619.6	615.9	614.5	615.9	616.7
57.5°	568.4	566.9	564.7	565.5	563.3
60°	513.5	513.5	511.3	512.8	511.3
62.5°	460.1	461.6	459.4	459.4	457.9
65°	405.3	406.7	404.5	404.5	403.1
67.5°	348.9	351.1	348.2	348.2	346.7
70°	290.4	294.8	291.9	292.6	291.1
72.5°	237.7	239.9	237.0	237.0	235.5
75°	185.1	186.5	183.6	184.3	182.1
77.5°	133.1	135.3	132.4	133.1	132.4
80°	89.2	90.0	87.8	88.5	87.1
82.5°	51.9	52.7	51.9	51.2	50.5
85°	23.4	24.1	23.4	23.4	22.7
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)