

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: P973675

Luminaire Tested: FLR2-22-35-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973675
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: FLR2-22-35-L850-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

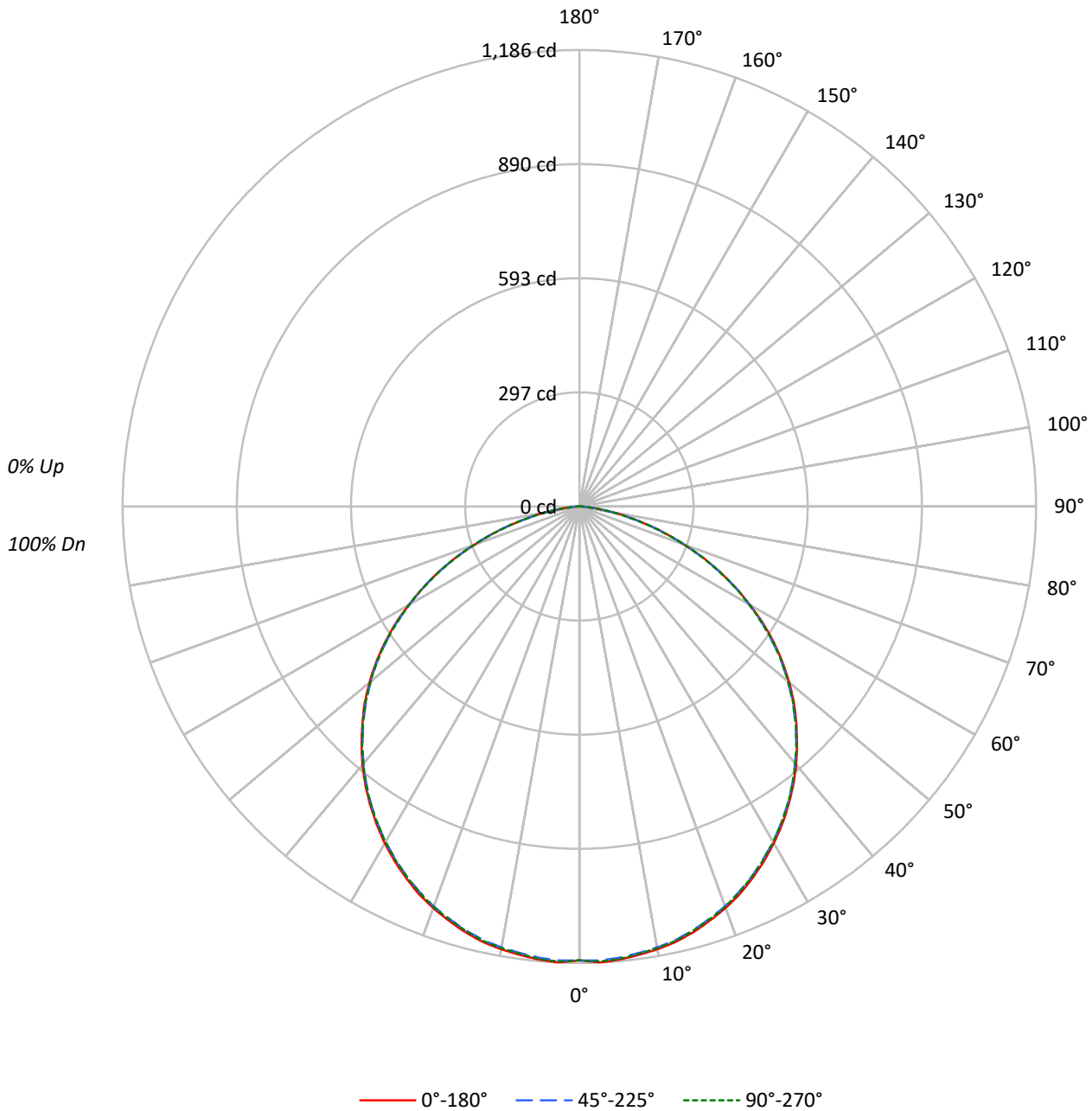
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.8 lumens
Efficiency: N/A
Efficacy: 118.2 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): 27.9
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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3173	3173	3173
5°	3193	3180	3189
10°	3192	3178	3184
15°	3190	3176	3180
20°	3179	3166	3170
25°	3162	3149	3151
30°	3139	3126	3128
35°	3111	3099	3101
40°	3078	3063	3065
45°	3032	3019	3024
50°	2979	2958	2964
55°	2894	2870	2881
60°	2752	2740	2740
65°	2569	2565	2555
70°	2275	2286	2281
75°	1916	1901	1886
80°	1378	1354	1344
85°	719	719	698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3032 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.7	3.4
10°-20°	321.1	9.7
20°-30°	488.0	14.8
30°-40°	589.8	17.9
40°-50°	612.2	18.6
50°-60°	547.3	16.6
60°-70°	398.0	12.1
70°-80°	195.7	5.9
80°-90°	33.9	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°	920.8	27.9
0°-40°	1510.6	45.8
0°-60°	2670.2	81.0
0°-90°	3297.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1182	1168	1177	1173	1181	112
15°	1145	1132	1140	1137	1141	323
25°	1065	1053	1060	1058	1061	491
35°	947	940	943	944	944	592
45°	797	793	793	795	795	615
55°	617	613	612	613	614	550
65°	404	405	403	403	401	398
75°	184	186	183	184	181	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°	1179.2	1179.2	1179.2	1179.2	1179.2
2.5°	1185.8	1172.0	1180.7	1175.6	1183.6
5°	1182.2	1168.3	1177.1	1172.7	1180.7
7.5°	1175.6	1161.8	1170.5	1166.1	1172.7
10°	1168.3	1153.8	1163.2	1158.9	1165.4
12.5°	1158.9	1145.0	1153.8	1150.1	1155.9
15°	1145.0	1131.9	1139.9	1137.0	1141.4
17.5°	1128.3	1115.2	1123.2	1121.0	1124.6
20°	1110.1	1097.7	1105.7	1103.5	1107.1
22.5°	1089.7	1076.5	1083.8	1082.4	1085.3
25°	1064.9	1053.2	1060.5	1058.3	1061.3
27.5°	1038.7	1027.7	1033.6	1033.6	1035.0
30°	1010.3	1000.1	1005.9	1005.9	1006.6
32.5°	979.7	971.7	975.3	976.0	976.0
35°	946.9	940.3	943.3	944.0	944.0
37.5°	912.7	906.1	908.3	909.7	909.7
40°	876.2	870.4	871.9	873.3	872.6
42.5°	836.9	832.5	833.3	834.7	834.7
45°	796.8	793.2	793.2	794.7	794.7
47.5°	756.1	752.4	751.0	752.4	752.4
50°	711.6	708.0	706.5	708.0	708.0
52.5°	665.0	661.4	661.4	661.4	662.1
55°	616.9	613.3	611.8	613.3	614.0
57.5°	566.0	564.5	562.3	563.0	560.9
60°	511.3	511.3	509.1	510.6	509.1
62.5°	458.2	459.6	457.4	457.4	456.0
65°	403.5	405.0	402.8	402.8	401.3
67.5°	347.4	349.6	346.7	346.7	345.3
70°	289.2	293.5	290.6	291.4	289.9
72.5°	236.7	238.9	236.0	236.0	234.5
75°	184.3	185.7	182.8	183.6	181.4
77.5°	132.6	134.8	131.8	132.6	131.8
80°	88.9	89.6	87.4	88.1	86.7
82.5°	51.7	52.4	51.7	51.0	50.3
85°	23.3	24.0	23.3	23.3	22.6
87.5°	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)