

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: P974425

Luminaire Tested: FLR2-24-20-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L850-CP375
Ballast/Driver: -

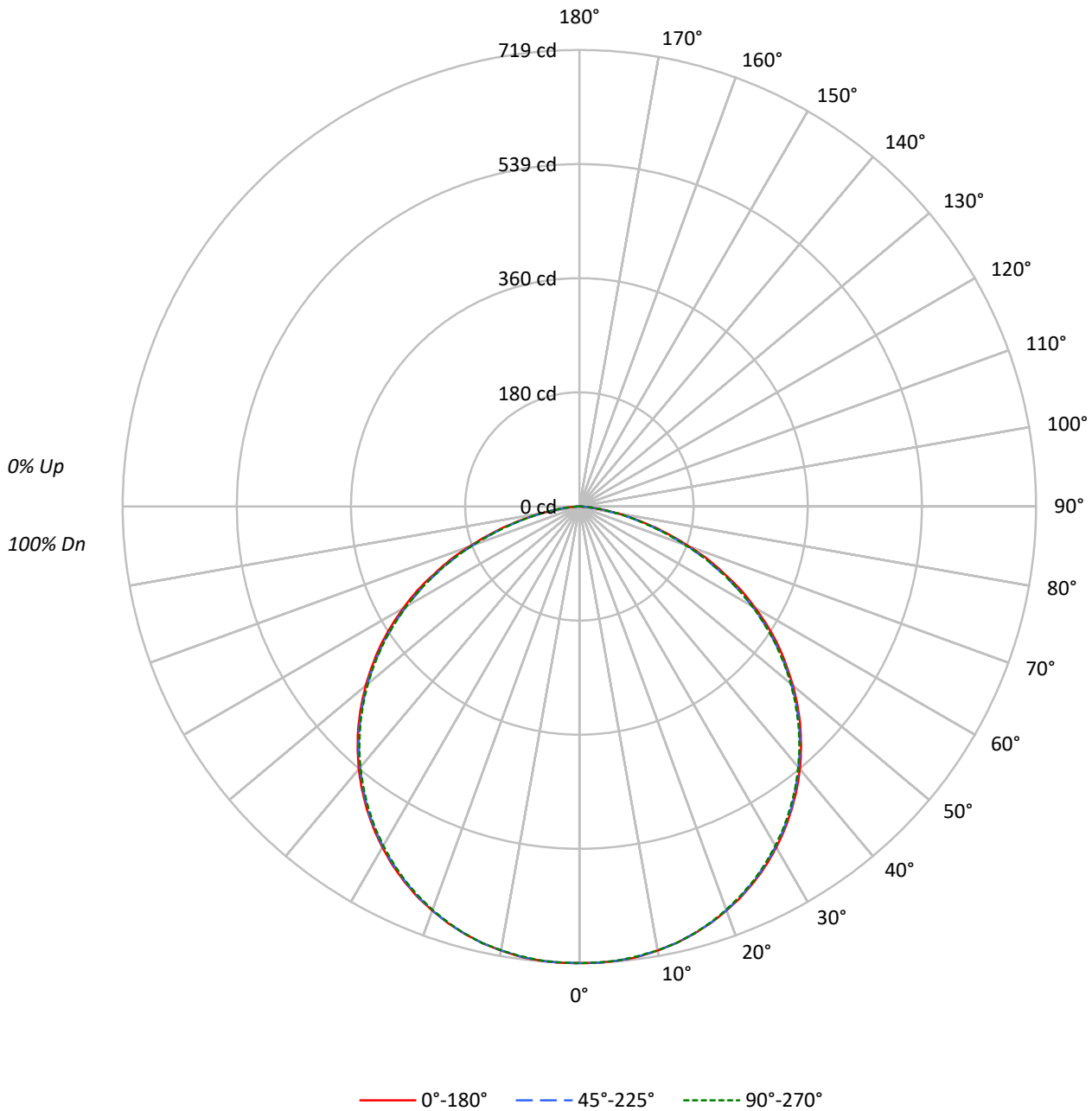
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.7
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	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	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	968	968	968
5°	970	970	969
10°	970	970	970
15°	971	970	970
20°	970	969	968
25°	968	966	965
30°	964	961	959
35°	957	955	951
40°	949	943	942
45°	937	931	928
50°	919	912	909
55°	897	885	883
60°	860	845	845
65°	805	785	788
70°	724	702	699
75°	608	584	581
80°	444	422	440
85°	252	232	235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 937 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.4
10°-20°	196.7	9.7
20°-30°	299.9	14.8
30°-40°	363.4	17.9
40°-50°	377.4	18.6
50°-60°	337.6	16.6
60°-70°	246.1	12.1
70°-80°	121.9	6.0
80°-90°	21.8	1.1
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°	564.9	27.8
0°-40°	928.3	45.7
0°-60°	1643.3	80.8
0°-90°	2033.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	719	719	719	719	719	
5°	718	718	718	718	718	68
15°	697	697	697	697	697	197
25°	652	651	651	650	650	300
35°	583	582	581	580	579	365
45°	492	491	489	488	488	379
55°	382	380	377	377	377	341
65°	253	251	247	248	248	251
75°	117	115	112	114	112	125
85°	16	15	15	15	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.3	719.3	719.3	719.3	719.3
2.5°	719.3	719.1	719.1	719.3	718.8
5°	718.0	718.3	718.0	718.0	717.5
7.5°	715.2	715.0	714.7	715.0	714.2
10°	710.3	710.3	710.0	710.3	709.8
12.5°	704.4	704.4	704.4	704.6	704.4
15°	696.9	696.6	696.6	697.1	696.6
17.5°	688.1	687.8	687.8	687.6	687.1
20°	677.3	677.3	677.0	676.8	676.0
22.5°	665.7	665.4	664.6	664.6	663.6
25°	652.0	651.2	650.7	650.4	649.7
27.5°	637.0	636.0	635.2	634.7	633.9
30°	620.2	619.2	618.4	617.6	617.1
32.5°	602.2	601.6	600.4	600.1	599.1
35°	582.8	582.0	581.3	580.2	579.2
37.5°	562.2	561.4	559.6	559.1	558.3
40°	540.2	539.2	536.9	536.9	536.1
42.5°	516.7	515.7	514.1	513.1	512.6
45°	492.2	491.2	489.4	488.3	487.8
47.5°	466.1	465.4	463.3	462.5	461.7
50°	439.0	438.0	435.7	435.2	434.4
52.5°	410.6	410.1	407.0	406.8	406.0
55°	382.5	379.7	377.1	377.1	376.6
57.5°	351.5	349.5	346.1	346.1	345.6
60°	319.5	317.7	313.9	314.4	313.9
62.5°	288.3	284.4	280.8	282.4	281.1
65°	252.7	250.6	246.7	247.8	247.5
67.5°	220.2	216.3	212.7	214.7	213.7
70°	184.0	182.0	178.4	180.4	177.8
72.5°	150.0	148.2	144.5	146.9	144.3
75°	116.9	115.1	112.3	114.3	111.8
77.5°	85.7	84.4	81.8	83.9	84.4
80°	57.3	55.8	54.5	56.3	56.8
82.5°	33.6	32.5	32.0	32.3	33.6
85°	16.3	15.0	15.0	15.2	15.2
87.5°	4.4	3.9	4.4	4.6	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)