

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: P973626

Luminaire Tested: FLR2-22-25-L840-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973626  
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: FLR2-22-25-L840-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

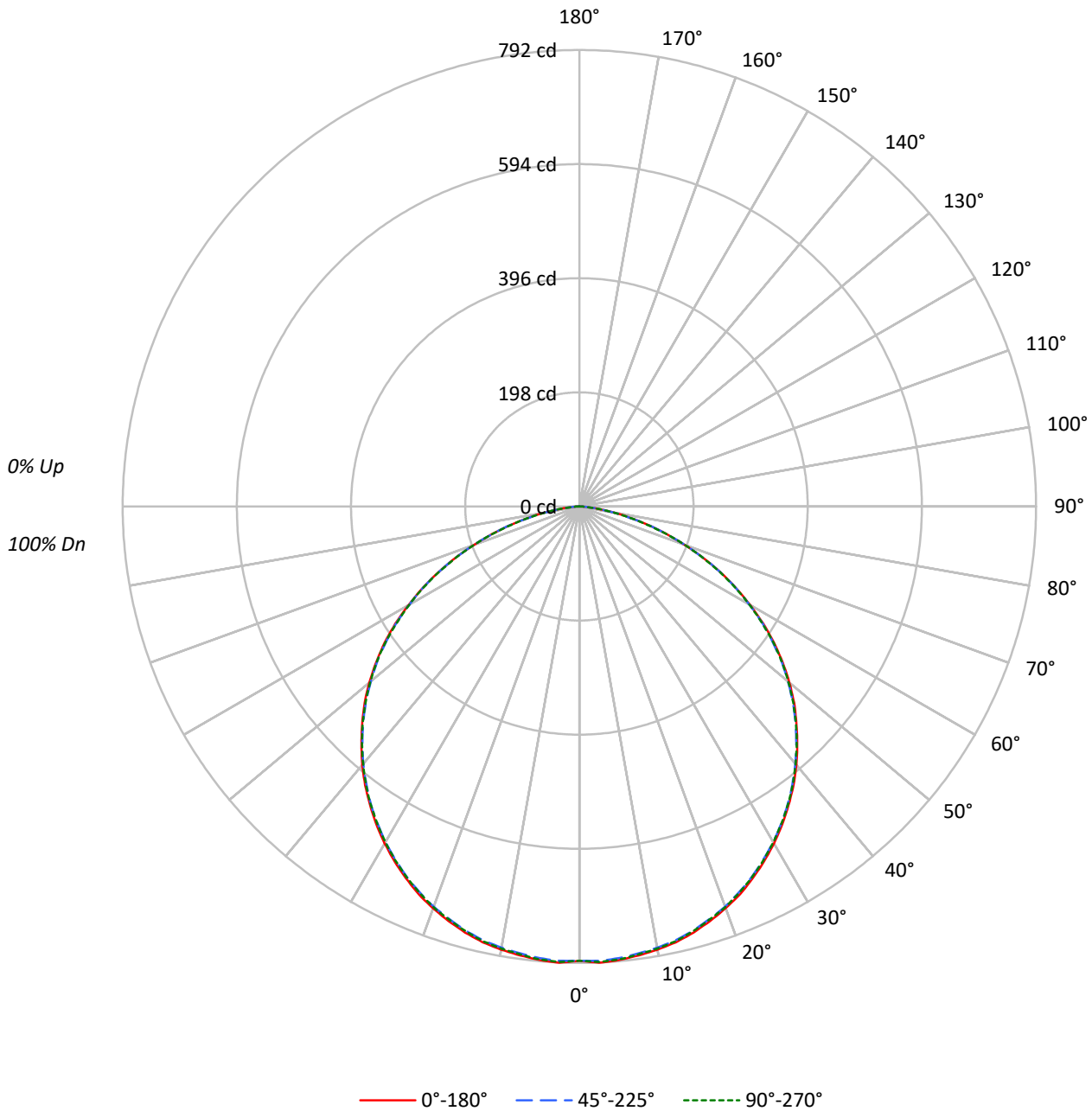
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2204.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 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): 18.9  
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										
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°	2121	2121	2121
5°	2134	2125	2132
10°	2134	2124	2128
15°	2132	2122	2125
20°	2125	2116	2119
25°	2113	2105	2106
30°	2098	2089	2091
35°	2079	2071	2073
40°	2057	2047	2049
45°	2027	2017	2021
50°	1991	1977	1981
55°	1934	1918	1925
60°	1839	1831	1831
65°	1717	1714	1708
70°	1521	1528	1524
75°	1281	1271	1260
80°	921	905	897
85°	482	482	466

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2027 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	3.4
10°-20°	214.6	9.7
20°-30°	326.1	14.8
30°-40°	394.2	17.9
40°-50°	409.2	18.6
50°-60°	365.8	16.6
60°-70°	266.0	12.1
70°-80°	130.8	5.9
80°-90°	22.7	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°	615.4	27.9
0°-40°	1009.6	45.8
0°-60°	1784.6	81.0
0°-90°	2204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2204.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	788	788	788	788	788	
5°	790	781	787	784	789	75
15°	765	756	762	760	763	216
25°	712	704	709	707	709	328
35°	633	628	630	631	631	396
45°	533	530	530	531	531	411
55°	412	410	409	410	410	367
65°	270	271	269	269	268	266
75°	123	124	122	123	121	131
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	788.1	788.1	788.1	788.1	788.1
2.5°	792.5	783.3	789.1	785.7	791.1
5°	790.1	780.8	786.7	783.8	789.1
7.5°	785.7	776.4	782.3	779.4	783.8
10°	780.8	771.1	777.4	774.5	778.9
12.5°	774.5	765.3	771.1	768.7	772.6
15°	765.3	756.5	761.8	759.9	762.8
17.5°	754.1	745.3	750.6	749.2	751.6
20°	741.9	733.6	739.0	737.5	739.9
22.5°	728.3	719.5	724.4	723.4	725.3
25°	711.7	703.9	708.8	707.3	709.3
27.5°	694.2	686.9	690.8	690.8	691.7
30°	675.2	668.4	672.3	672.3	672.8
32.5°	654.7	649.4	651.8	652.3	652.3
35°	632.8	628.5	630.4	630.9	630.9
37.5°	610.0	605.6	607.0	608.0	608.0
40°	585.6	581.7	582.7	583.7	583.2
42.5°	559.3	556.4	556.9	557.9	557.9
45°	532.6	530.1	530.1	531.1	531.1
47.5°	505.3	502.9	501.9	502.9	502.9
50°	475.6	473.2	472.2	473.2	473.2
52.5°	444.4	442.0	442.0	442.0	442.5
55°	412.3	409.9	408.9	409.9	410.4
57.5°	378.2	377.3	375.8	376.3	374.8
60°	341.7	341.7	340.3	341.2	340.3
62.5°	306.2	307.2	305.7	305.7	304.7
65°	269.7	270.7	269.2	269.2	268.2
67.5°	232.2	233.7	231.7	231.7	230.7
70°	193.3	196.2	194.2	194.7	193.7
72.5°	158.2	159.7	157.7	157.7	156.8
75°	123.2	124.1	122.2	122.7	121.2
77.5°	88.6	90.1	88.1	88.6	88.1
80°	59.4	59.9	58.4	58.9	57.9
82.5°	34.6	35.0	34.6	34.1	33.6
85°	15.6	16.1	15.6	15.6	15.1
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)