

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: P973610

Luminaire Tested: FLR2-22-25-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973610
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

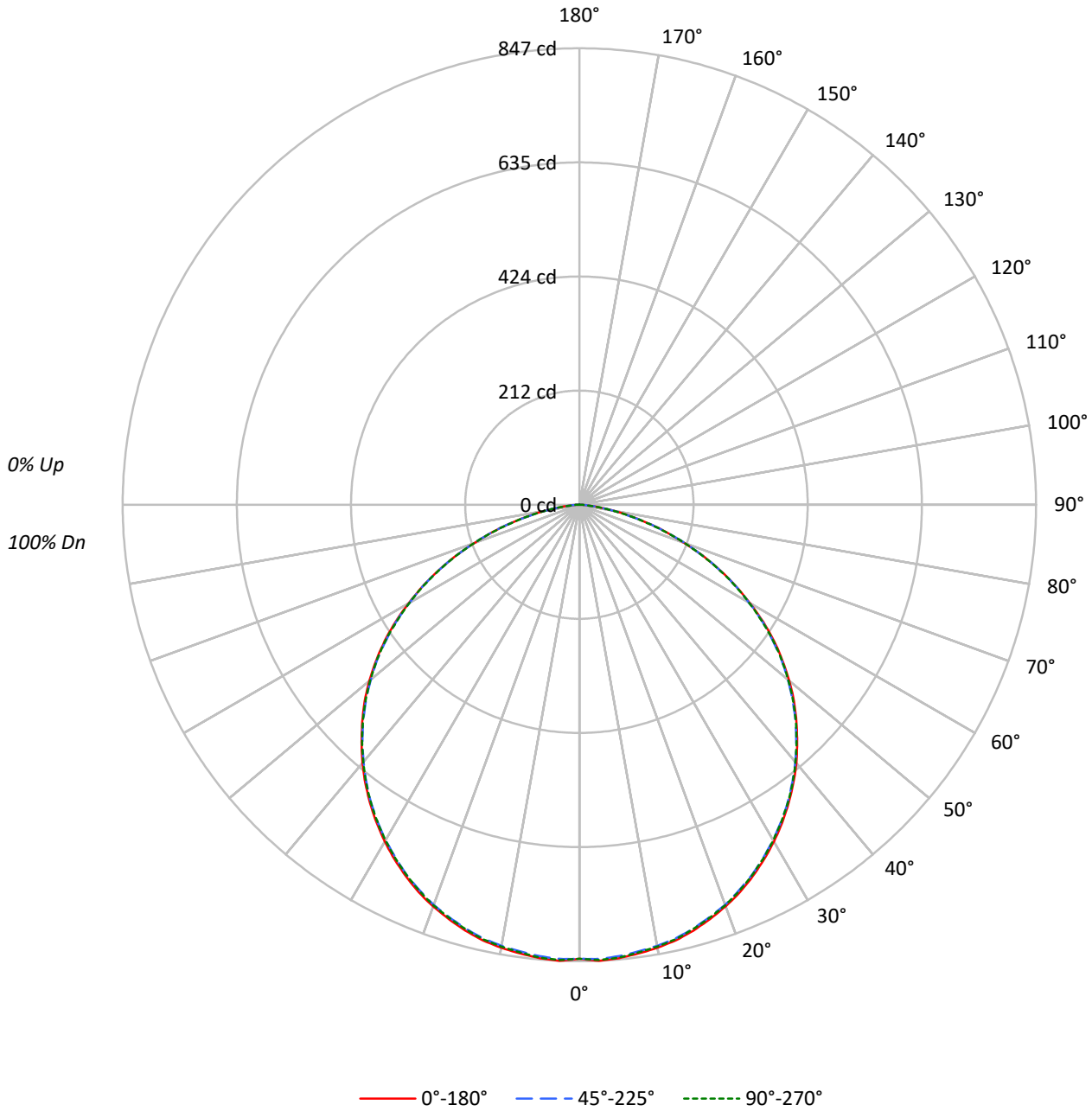
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.0 lumens
Efficiency: N/A
Efficacy: 124.7 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): 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	2267	2267	2267
5°	2281	2271	2279
10°	2281	2271	2275
15°	2279	2269	2272
20°	2271	2262	2265
25°	2259	2250	2251
30°	2243	2233	2235
35°	2222	2214	2215
40°	2199	2188	2190
45°	2167	2157	2160
50°	2128	2113	2117
55°	2068	2051	2058
60°	1966	1957	1957
65°	1836	1833	1826
70°	1626	1633	1629
75°	1369	1358	1347
80°	984	967	959
85°	516	516	497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2167 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.4
10°-20°	229.4	9.7
20°-30°	348.6	14.8
30°-40°	421.4	17.9
40°-50°	437.4	18.6
50°-60°	391.0	16.6
60°-70°	284.3	12.1
70°-80°	139.8	5.9
80°-90°	24.3	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°	657.8	27.9
0°-40°	1079.2	45.8
0°-60°	1907.7	81.0
0°-90°	2356.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	845	835	841	838	844	80
15°	818	809	814	812	815	231
25°	761	752	758	756	758	351
35°	676	672	674	674	674	423
45°	569	567	567	568	568	439
55°	441	438	437	438	439	393
65°	288	289	288	288	287	284
75°	132	133	131	131	130	140
85°	17	17	17	17	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	842.5	842.5	842.5	842.5	842.5
2.5°	847.2	837.3	843.5	839.9	845.6
5°	844.6	834.7	840.9	837.8	843.5
7.5°	839.9	830.0	836.2	833.1	837.8
10°	834.7	824.3	831.0	827.9	832.6
12.5°	827.9	818.0	824.3	821.7	825.8
15°	818.0	808.7	814.4	812.3	815.4
17.5°	806.1	796.7	802.4	800.9	803.5
20°	793.1	784.2	789.9	788.4	791.0
22.5°	778.5	769.1	774.3	773.3	775.4
25°	760.8	752.5	757.7	756.1	758.2
27.5°	742.1	734.2	738.4	738.4	739.5
30°	721.8	714.5	718.6	718.6	719.2
32.5°	699.9	694.2	696.8	697.3	697.3
35°	676.5	671.8	673.9	674.4	674.4
37.5°	652.0	647.3	648.9	649.9	649.9
40°	626.0	621.8	622.9	623.9	623.4
42.5°	597.9	594.8	595.3	596.3	596.3
45°	569.3	566.7	566.7	567.7	567.7
47.5°	540.1	537.5	536.5	537.5	537.5
50°	508.4	505.8	504.8	505.8	505.8
52.5°	475.1	472.5	472.5	472.5	473.0
55°	440.8	438.2	437.1	438.2	438.7
57.5°	404.3	403.3	401.7	402.2	400.7
60°	365.3	365.3	363.7	364.8	363.7
62.5°	327.3	328.4	326.8	326.8	325.8
65°	288.3	289.3	287.8	287.8	286.7
67.5°	248.2	249.8	247.7	247.7	246.7
70°	206.6	209.7	207.6	208.1	207.1
72.5°	169.1	170.7	168.6	168.6	167.6
75°	131.7	132.7	130.6	131.1	129.6
77.5°	94.7	96.3	94.2	94.7	94.2
80°	63.5	64.0	62.4	63.0	61.9
82.5°	36.9	37.5	36.9	36.4	35.9
85°	16.7	17.2	16.7	16.7	16.1
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)