

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: P973635

Luminaire Tested: FLR2-22-35-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973635
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-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

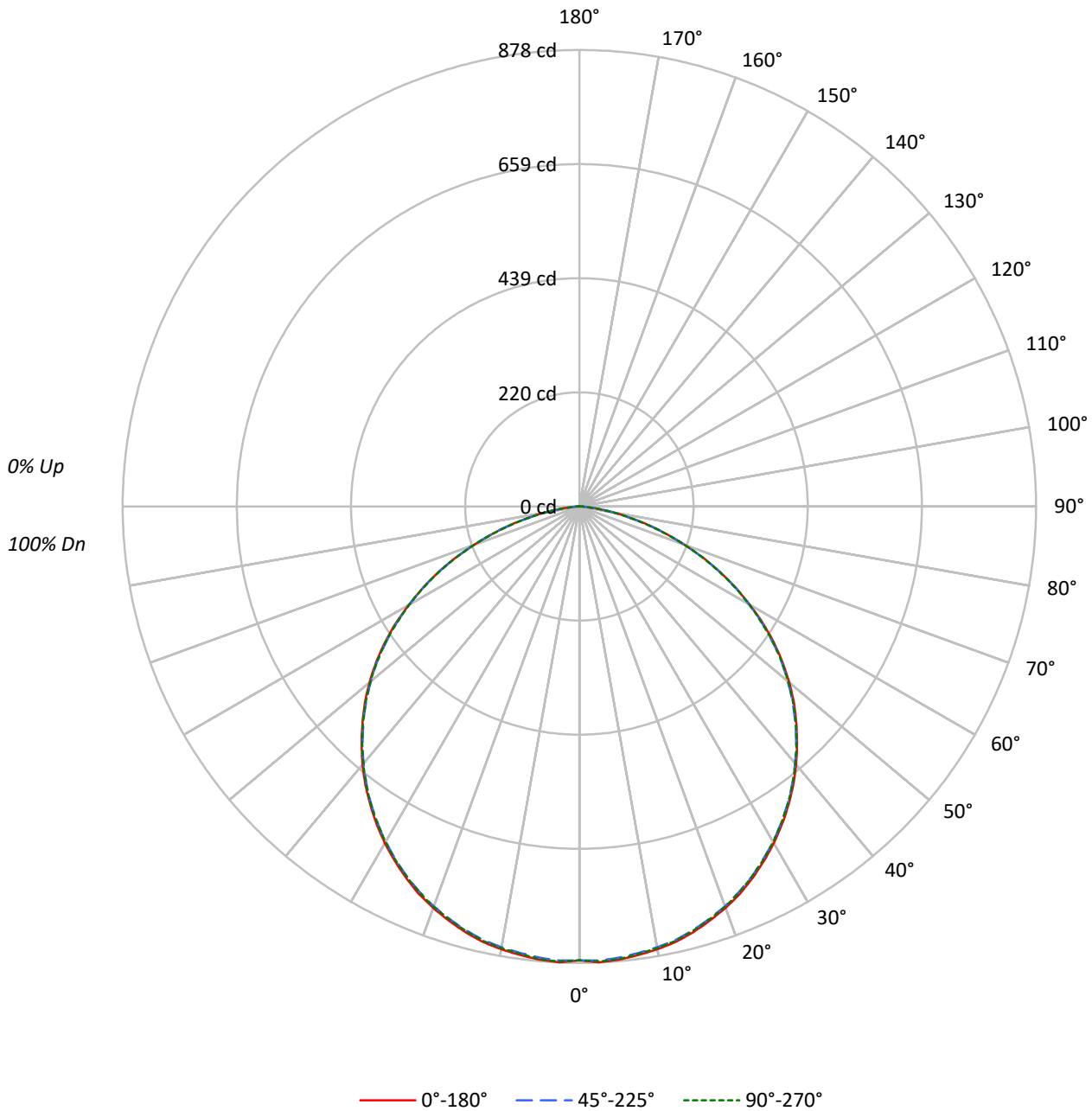
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2441.1 lumens
Efficiency: N/A
Efficacy: 87.5 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										
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°	2349	2349	2349
5°	2364	2354	2361
10°	2363	2353	2357
15°	2361	2351	2354
20°	2353	2344	2347
25°	2341	2331	2333
30°	2324	2314	2315
35°	2303	2294	2296
40°	2278	2267	2269
45°	2245	2234	2238
50°	2205	2189	2194
55°	2143	2125	2132
60°	2037	2028	2028
65°	1902	1899	1892
70°	1684	1692	1688
75°	1418	1407	1396
80°	1020	1003	995
85°	534	534	516

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.4
10°-20°	237.7	9.7
20°-30°	361.2	14.8
30°-40°	436.6	17.9
40°-50°	453.2	18.6
50°-60°	405.2	16.6
60°-70°	294.6	12.1
70°-80°	144.9	5.9
80°-90°	25.1	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°	681.6	27.9
0°-40°	1118.2	45.8
0°-60°	1976.6	81.0
0°-90°	2441.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2441.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	875	865	871	868	874	83
15°	848	838	844	842	845	239
25°	788	780	785	783	786	363
35°	701	696	698	699	699	439
45°	590	587	587	588	588	455
55°	457	454	453	454	454	407
65°	299	300	298	298	297	295
75°	136	138	135	136	134	145
85°	17	18	17	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.9	872.9	872.9	872.9	872.9
2.5°	877.8	867.5	874.0	870.2	876.1
5°	875.1	864.8	871.3	868.0	874.0
7.5°	870.2	860.0	866.4	863.2	868.0
10°	864.8	854.0	861.0	857.8	862.7
12.5°	857.8	847.6	854.0	851.3	855.6
15°	847.6	837.9	843.8	841.6	844.9
17.5°	835.2	825.5	831.4	829.8	832.5
20°	821.7	812.5	818.4	816.8	819.5
22.5°	806.6	796.9	802.3	801.2	803.3
25°	788.3	779.6	785.0	783.4	785.6
27.5°	768.8	760.8	765.1	765.1	766.1
30°	747.8	740.3	744.6	744.6	745.1
32.5°	725.2	719.2	721.9	722.5	722.5
35°	700.9	696.1	698.2	698.8	698.8
37.5°	675.6	670.7	672.3	673.4	673.4
40°	648.6	644.3	645.4	646.5	645.9
42.5°	619.5	616.3	616.8	617.9	617.9
45°	589.8	587.1	587.1	588.2	588.2
47.5°	559.6	557.0	555.9	557.0	557.0
50°	526.8	524.1	523.0	524.1	524.1
52.5°	492.3	489.6	489.6	489.6	490.1
55°	456.7	454.0	452.9	454.0	454.5
57.5°	418.9	417.8	416.2	416.8	415.2
60°	378.5	378.5	376.9	378.0	376.9
62.5°	339.1	340.2	338.6	338.6	337.5
65°	298.7	299.8	298.2	298.2	297.1
67.5°	257.2	258.8	256.6	256.6	255.6
70°	214.0	217.3	215.1	215.7	214.6
72.5°	175.2	176.8	174.7	174.7	173.6
75°	136.4	137.5	135.3	135.9	134.3
77.5°	98.1	99.7	97.6	98.1	97.6
80°	65.8	66.3	64.7	65.2	64.2
82.5°	38.3	38.8	38.3	37.7	37.2
85°	17.3	17.8	17.3	17.3	16.7
87.5°	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)