

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: P974289

Luminaire Tested: FLR2-24-20-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974289
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-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L840-CP125
Ballast/Driver: -

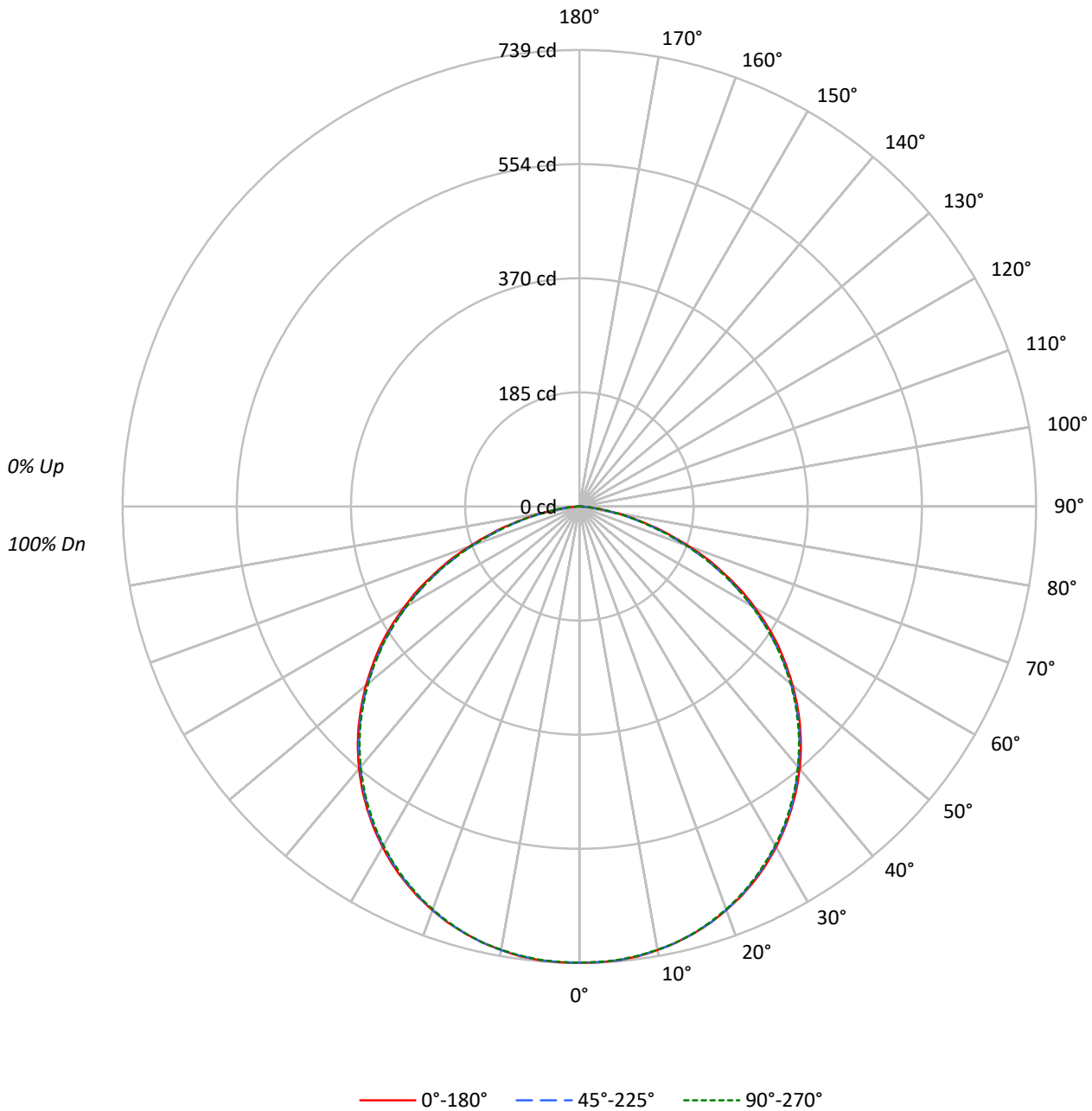
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2087.5 lumens
Efficiency: N/A
Efficacy: 125.0 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										
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44					44															
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38					38															
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	38	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	39	33	29	27					27															
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	994	994	994
5°	996	996	995
10°	996	996	996
15°	997	996	996
20°	996	995	994
25°	994	992	990
30°	989	987	985
35°	983	980	977
40°	974	968	967
45°	962	956	953
50°	944	936	934
55°	921	908	907
60°	883	867	867
65°	826	807	809
70°	744	720	718
75°	624	599	597
80°	456	433	452
85°	258	238	241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	3.4
10°-20°	202.0	9.7
20°-30°	307.9	14.8
30°-40°	373.1	17.9
40°-50°	387.5	18.6
50°-60°	346.7	16.6
60°-70°	252.7	12.1
70°-80°	125.1	6.0
80°-90°	22.4	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°	580.0	27.8
0°-40°	953.1	45.7
0°-60°	1687.3	80.8
0°-90°	2087.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	737	738	737	737	737	70
15°	716	715	715	716	715	202
25°	669	669	668	668	667	309
35°	598	598	597	596	595	374
45°	505	504	502	501	501	389
55°	393	390	387	387	387	350
65°	260	257	253	254	254	257
75°	120	118	115	117	115	128
85°	17	15	15	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.6	738.6	738.6	738.6	738.6
2.5°	738.6	738.3	738.3	738.6	738.1
5°	737.3	737.5	737.3	737.3	736.7
7.5°	734.4	734.1	733.8	734.1	733.3
10°	729.3	729.3	729.1	729.3	728.8
12.5°	723.2	723.2	723.2	723.5	723.2
15°	715.5	715.3	715.3	715.8	715.3
17.5°	706.5	706.3	706.3	706.0	705.5
20°	695.4	695.4	695.1	694.9	694.1
22.5°	683.5	683.2	682.4	682.4	681.4
25°	669.4	668.6	668.1	667.8	667.0
27.5°	654.1	653.0	652.2	651.7	650.9
30°	636.8	635.8	635.0	634.2	633.7
32.5°	618.3	617.8	616.4	616.2	615.1
35°	598.4	597.6	596.8	595.8	594.7
37.5°	577.2	576.4	574.6	574.0	573.2
40°	554.7	553.6	551.2	551.2	550.4
42.5°	530.6	529.5	527.9	526.9	526.3
45°	505.4	504.3	502.5	501.4	500.9
47.5°	478.6	477.8	475.7	474.9	474.1
50°	450.8	449.7	447.3	446.8	446.0
52.5°	421.6	421.1	417.9	417.7	416.9
55°	392.8	389.8	387.2	387.2	386.7
57.5°	361.0	358.8	355.4	355.4	354.9
60°	328.1	326.2	322.3	322.8	322.3
62.5°	296.0	292.0	288.3	289.9	288.6
65°	259.5	257.3	253.4	254.4	254.2
67.5°	226.1	222.1	218.4	220.5	219.4
70°	189.0	186.8	183.1	185.2	182.6
72.5°	154.0	152.1	148.4	150.8	148.1
75°	120.1	118.2	115.3	117.4	114.8
77.5°	88.0	86.7	84.0	86.1	86.7
80°	58.8	57.2	55.9	57.8	58.3
82.5°	34.5	33.4	32.9	33.1	34.5
85°	16.7	15.4	15.4	15.6	15.6
87.5°	4.5	4.0	4.5	4.8	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)