

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: P974758

Luminaire Tested: FLR2-24-20HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974758
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: FLR2-24-20HE-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

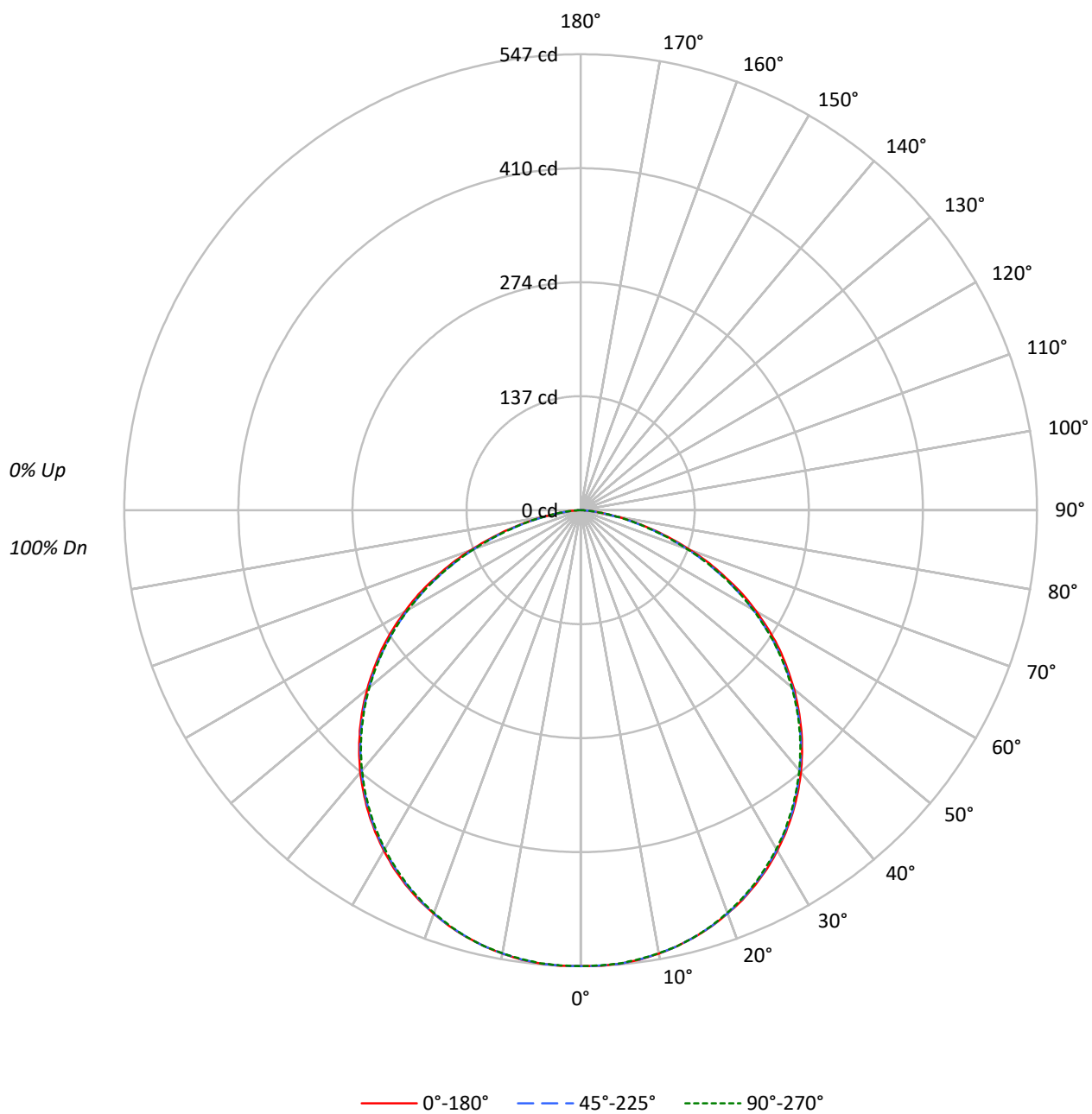
Lumens per Lamp: N/A
Luminaire Lumens: 1546.2 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	736	736	736
5°	738	738	737
10°	738	738	737
15°	738	738	738
20°	738	737	736
25°	736	735	734
30°	733	731	729
35°	728	726	724
40°	722	717	716
45°	712	708	706
50°	699	694	692
55°	682	673	672
60°	654	642	642
65°	612	598	599
70°	551	533	532
75°	462	444	442
80°	338	321	335
85°	191	176	179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 712 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	3.4
10°-20°	149.6	9.7
20°-30°	228.1	14.8
30°-40°	276.4	17.9
40°-50°	287.1	18.6
50°-60°	256.8	16.6
60°-70°	187.2	12.1
70°-80°	92.7	6.0
80°-90°	16.6	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°	429.6	27.8
0°-40°	706.0	45.7
0°-60°	1249.8	80.8
0°-90°	1546.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1546.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	546	546	546	546	52
15°	530	530	530	530	530	150
25°	496	495	495	495	494	229
35°	443	443	442	441	440	277
45°	374	374	372	371	371	288
55°	291	289	287	287	286	259
65°	192	191	188	188	188	191
75°	89	88	85	87	85	95
85°	12	11	11	12	12	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	547.1	547.1	547.1	547.1	547.1
2.5°	547.1	546.9	546.9	547.1	546.7
5°	546.1	546.3	546.1	546.1	545.7
7.5°	543.9	543.8	543.6	543.8	543.2
10°	540.2	540.2	540.0	540.2	539.8
12.5°	535.7	535.7	535.7	535.9	535.7
15°	530.0	529.8	529.8	530.2	529.8
17.5°	523.3	523.1	523.1	522.9	522.6
20°	515.1	515.1	514.9	514.7	514.1
22.5°	506.3	506.1	505.5	505.5	504.7
25°	495.9	495.3	494.9	494.7	494.1
27.5°	484.5	483.7	483.1	482.7	482.1
30°	471.7	470.9	470.3	469.7	469.4
32.5°	458.0	457.6	456.6	456.4	455.6
35°	443.2	442.7	442.1	441.3	440.5
37.5°	427.5	427.0	425.6	425.2	424.6
40°	410.9	410.1	408.3	408.3	407.7
42.5°	393.0	392.2	391.0	390.2	389.9
45°	374.3	373.6	372.2	371.4	371.0
47.5°	354.5	353.9	352.4	351.8	351.2
50°	333.9	333.1	331.4	331.0	330.4
52.5°	312.3	311.9	309.6	309.4	308.8
55°	290.9	288.8	286.8	286.8	286.4
57.5°	267.4	265.8	263.2	263.2	262.8
60°	243.0	241.6	238.7	239.1	238.7
62.5°	219.3	216.3	213.6	214.8	213.8
65°	192.2	190.6	187.7	188.4	188.3
67.5°	167.4	164.5	161.8	163.3	162.5
70°	140.0	138.4	135.6	137.2	135.3
72.5°	114.1	112.7	109.9	111.7	109.7
75°	88.9	87.6	85.4	87.0	85.0
77.5°	65.2	64.2	62.2	63.8	64.2
80°	43.6	42.4	41.4	42.8	43.2
82.5°	25.5	24.7	24.3	24.5	25.5
85°	12.4	11.4	11.4	11.6	11.6
87.5°	3.3	2.9	3.3	3.5	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)