

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: P974934

Luminaire Tested: FLR2-24-20HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974934
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-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

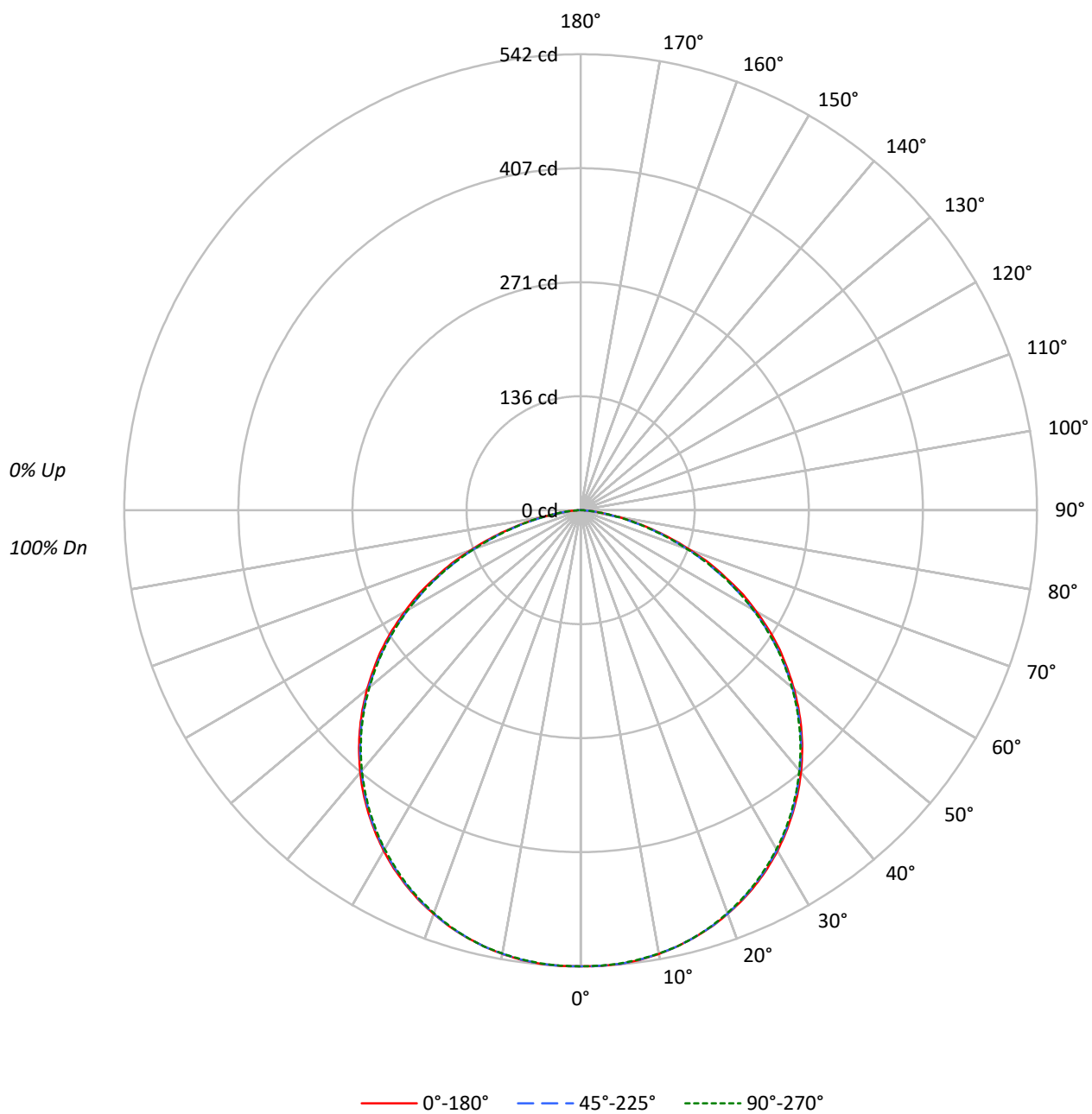
Lumens per Lamp: N/A
Luminaire Lumens: 1532.9 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	730	730	730
5°	731	731	731
10°	732	731	731
15°	732	732	732
20°	731	731	730
25°	730	728	727
30°	727	724	723
35°	722	720	717
40°	715	711	710
45°	706	702	700
50°	693	688	686
55°	677	667	666
60°	648	637	637
65°	606	592	594
70°	546	529	528
75°	459	440	438
80°	335	318	332
85°	190	174	178

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.5	3.4
10°-20°	148.3	9.7
20°-30°	226.1	14.8
30°-40°	274.0	17.9
40°-50°	284.6	18.6
50°-60°	254.6	16.6
60°-70°	185.5	12.1
70°-80°	91.9	6.0
80°-90°	16.4	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°	425.9	27.8
0°-40°	699.9	45.7
0°-60°	1239.1	80.8
0°-90°	1532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	542	542	542	542	542	
5°	541	542	541	541	541	51
15°	526	525	525	526	525	148
25°	492	491	491	490	490	227
35°	439	439	438	438	437	275
45°	371	370	369	368	368	286
55°	288	286	284	284	284	257
65°	190	189	186	187	187	189
75°	88	87	85	86	84	94
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°	542.4	542.4	542.4	542.4	542.4
2.5°	542.4	542.2	542.2	542.4	542.0
5°	541.4	541.6	541.4	541.4	541.0
7.5°	539.3	539.1	538.9	539.1	538.5
10°	535.6	535.6	535.4	535.6	535.2
12.5°	531.1	531.1	531.1	531.3	531.1
15°	525.5	525.3	525.3	525.7	525.3
17.5°	518.8	518.6	518.6	518.4	518.1
20°	510.7	510.7	510.5	510.3	509.7
22.5°	501.9	501.7	501.1	501.1	500.4
25°	491.6	491.0	490.6	490.4	489.8
27.5°	480.3	479.5	478.9	478.6	478.0
30°	467.7	466.9	466.3	465.7	465.3
32.5°	454.0	453.6	452.7	452.5	451.7
35°	439.4	438.9	438.3	437.5	436.7
37.5°	423.9	423.3	421.9	421.5	420.9
40°	407.3	406.5	404.8	404.8	404.2
42.5°	389.6	388.8	387.7	386.9	386.5
45°	371.1	370.3	369.0	368.2	367.8
47.5°	351.5	350.9	349.3	348.7	348.2
50°	331.0	330.3	328.5	328.1	327.5
52.5°	309.6	309.2	306.9	306.7	306.1
55°	288.4	286.3	284.3	284.3	283.9
57.5°	265.1	263.5	261.0	261.0	260.6
60°	240.9	239.6	236.6	237.0	236.6
62.5°	217.4	214.5	211.7	212.9	211.9
65°	190.5	189.0	186.1	186.8	186.6
67.5°	166.0	163.1	160.4	161.9	161.1
70°	138.8	137.2	134.5	136.0	134.1
72.5°	113.1	111.7	109.0	110.7	108.8
75°	88.2	86.8	84.7	86.2	84.3
77.5°	64.6	63.6	61.7	63.2	63.6
80°	43.2	42.0	41.1	42.4	42.8
82.5°	25.3	24.5	24.1	24.3	25.3
85°	12.3	11.3	11.3	11.5	11.5
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)