

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: P974692

Luminaire Tested: FLR2-24-20HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974692
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-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

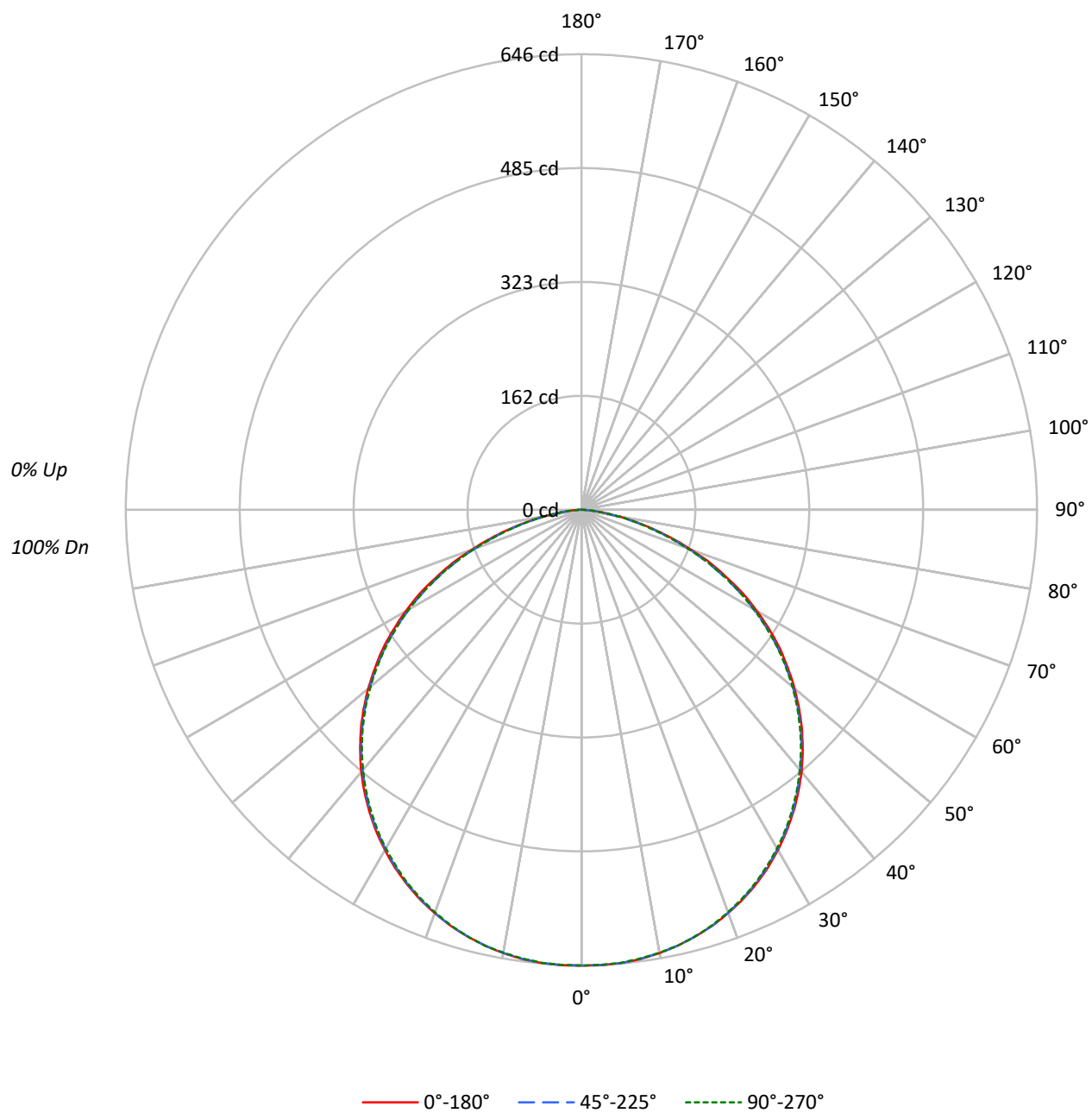
Lumens per Lamp: N/A
Luminaire Lumens: 1827.2 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	870	870	870
5°	872	872	871
10°	872	872	872
15°	872	872	872
20°	872	871	870
25°	870	868	867
30°	866	864	862
35°	860	858	855
40°	853	847	846
45°	842	837	834
50°	826	820	817
55°	806	795	794
60°	773	759	759
65°	723	706	708
70°	651	631	629
75°	546	525	522
80°	399	379	395
85°	225	208	211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 842 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	3.4
10°-20°	176.8	9.7
20°-30°	269.5	14.8
30°-40°	326.6	17.9
40°-50°	339.2	18.6
50°-60°	303.5	16.6
60°-70°	221.2	12.1
70°-80°	109.5	6.0
80°-90°	19.6	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°	507.7	27.8
0°-40°	834.2	45.7
0°-60°	1476.9	80.8
0°-90°	1827.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	645	646	645	645	645	61
15°	626	626	626	626	626	177
25°	586	585	585	585	584	270
35°	524	523	522	522	520	328
45°	442	441	440	439	438	341
55°	344	341	339	339	338	306
65°	227	225	222	223	222	225
75°	105	104	101	103	100	112
85°	15	14	14	14	14	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.5	646.5	646.5	646.5	646.5
2.5°	646.5	646.3	646.3	646.5	646.0
5°	645.3	645.6	645.3	645.3	644.9
7.5°	642.8	642.5	642.3	642.5	641.8
10°	638.4	638.4	638.1	638.4	637.9
12.5°	633.0	633.0	633.0	633.3	633.0
15°	626.3	626.1	626.1	626.5	626.1
17.5°	618.4	618.2	618.2	618.0	617.5
20°	608.7	608.7	608.4	608.2	607.5
22.5°	598.2	598.0	597.3	597.3	596.4
25°	585.9	585.2	584.8	584.6	583.9
27.5°	572.5	571.6	570.9	570.4	569.7
30°	557.4	556.5	555.8	555.1	554.6
32.5°	541.2	540.7	539.6	539.3	538.4
35°	523.8	523.1	522.4	521.5	520.5
37.5°	505.2	504.5	502.9	502.4	501.7
40°	485.5	484.6	482.5	482.5	481.8
42.5°	464.4	463.5	462.1	461.1	460.7
45°	442.4	441.4	439.8	438.9	438.4
47.5°	418.9	418.2	416.4	415.7	415.0
50°	394.6	393.6	391.6	391.1	390.4
52.5°	369.1	368.6	365.8	365.6	364.9
55°	343.8	341.2	338.9	338.9	338.4
57.5°	315.9	314.1	311.1	311.1	310.6
60°	287.2	285.5	282.1	282.5	282.1
62.5°	259.1	255.6	252.4	253.8	252.6
65°	227.1	225.2	221.8	222.7	222.5
67.5°	197.9	194.4	191.1	193.0	192.1
70°	165.4	163.5	160.3	162.1	159.8
72.5°	134.8	133.1	129.9	132.0	129.7
75°	105.1	103.5	100.9	102.8	100.4
77.5°	77.0	75.9	73.5	75.4	75.9
80°	51.5	50.1	48.9	50.6	51.0
82.5°	30.2	29.2	28.8	29.0	30.2
85°	14.6	13.5	13.5	13.7	13.7
87.5°	3.9	3.5	3.9	4.2	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)