

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: P974791

Luminaire Tested: FLR2-24-20HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974791
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

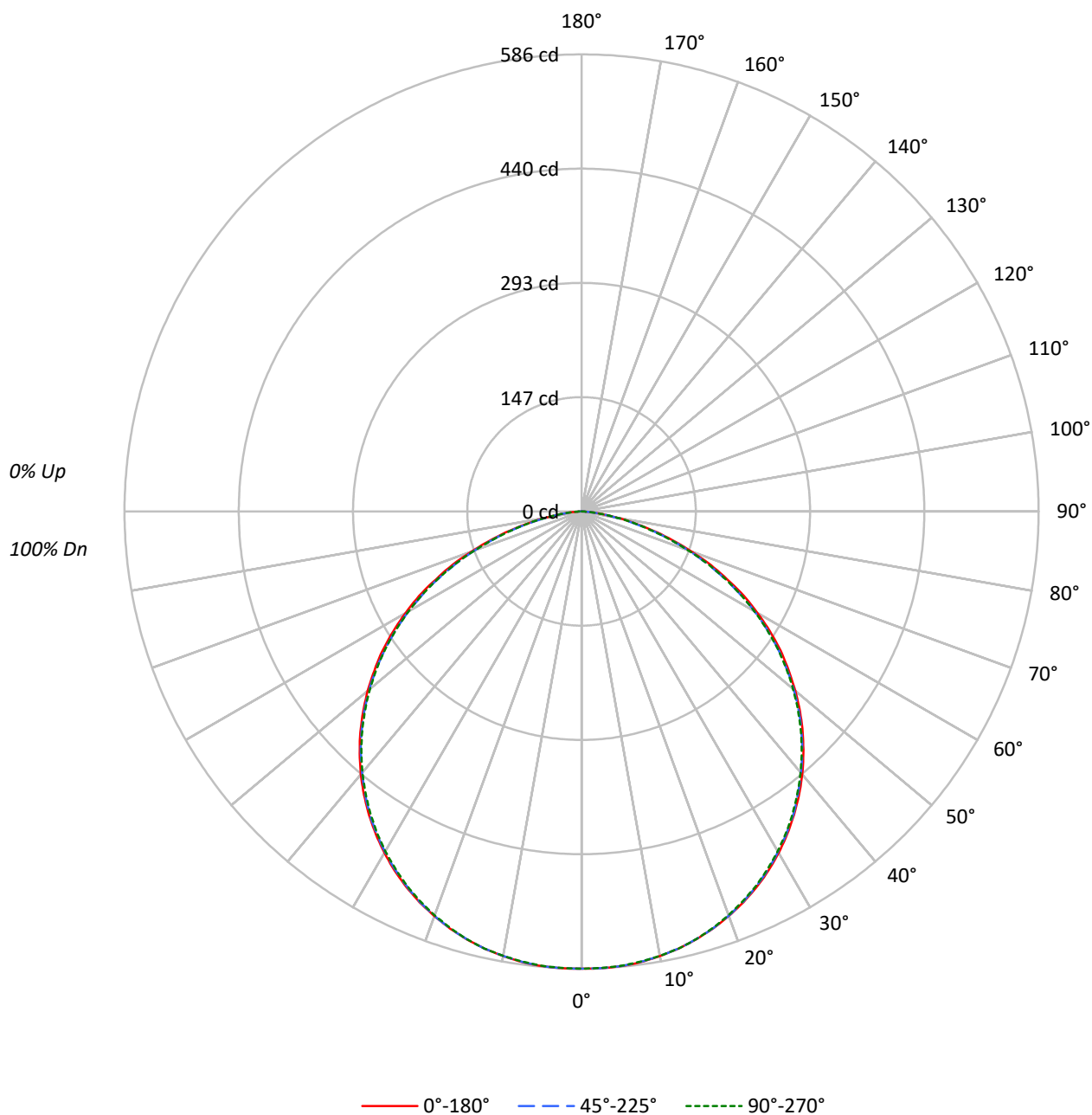
Lumens per Lamp: N/A
Luminaire Lumens: 1657.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	789	789	789
5°	790	790	790
10°	791	791	790
15°	791	791	791
20°	790	790	789
25°	789	787	786
30°	785	783	781
35°	780	778	775
40°	773	769	767
45°	763	759	757
50°	749	743	741
55°	731	721	720
60°	701	688	688
65°	656	640	642
70°	590	572	570
75°	495	476	474
80°	362	344	359
85°	205	188	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	3.4
10°-20°	160.3	9.7
20°-30°	244.4	14.8
30°-40°	296.2	17.9
40°-50°	307.6	18.6
50°-60°	275.2	16.6
60°-70°	200.6	12.1
70°-80°	99.3	6.0
80°-90°	17.8	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°	460.4	27.8
0°-40°	756.6	45.7
0°-60°	1339.4	80.8
0°-90°	1657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	585	585	585	585	585	56
15°	568	568	568	568	568	160
25°	531	531	530	530	530	245
35°	475	474	474	473	472	297
45°	401	400	399	398	398	309
55°	312	309	307	307	307	278
65°	206	204	201	202	202	204
75°	95	94	92	93	91	102
85°	13	12	12	12	12	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	586.3	586.3	586.3	586.3	586.3
2.5°	586.3	586.1	586.1	586.3	585.9
5°	585.2	585.4	585.2	585.2	584.8
7.5°	582.9	582.7	582.5	582.7	582.1
10°	578.9	578.9	578.7	578.9	578.5
12.5°	574.1	574.1	574.1	574.3	574.1
15°	568.0	567.8	567.8	568.2	567.8
17.5°	560.8	560.6	560.6	560.4	560.0
20°	552.0	552.0	551.8	551.6	550.9
22.5°	542.5	542.3	541.7	541.7	540.8
25°	531.4	530.7	530.3	530.1	529.5
27.5°	519.2	518.3	517.7	517.3	516.7
30°	505.5	504.7	504.0	503.4	503.0
32.5°	490.8	490.4	489.3	489.1	488.3
35°	475.0	474.4	473.7	472.9	472.1
37.5°	458.2	457.5	456.1	455.6	455.0
40°	440.3	439.4	437.6	437.6	436.9
42.5°	421.1	420.3	419.0	418.2	417.8
45°	401.2	400.3	398.8	398.0	397.6
47.5°	379.9	379.3	377.6	377.0	376.3
50°	357.8	357.0	355.1	354.7	354.0
52.5°	334.7	334.3	331.7	331.5	330.9
55°	311.8	309.4	307.3	307.3	306.9
57.5°	286.5	284.8	282.1	282.1	281.7
60°	260.4	259.0	255.8	256.2	255.8
62.5°	235.0	231.8	228.9	230.1	229.1
65°	205.9	204.3	201.1	201.9	201.7
67.5°	179.4	176.3	173.3	175.0	174.2
70°	150.0	148.3	145.4	147.0	144.9
72.5°	122.2	120.7	117.8	119.7	117.6
75°	95.3	93.8	91.5	93.2	91.1
77.5°	69.8	68.8	66.7	68.4	68.8
80°	46.7	45.4	44.4	45.9	46.3
82.5°	27.3	26.5	26.1	26.3	27.3
85°	13.3	12.2	12.2	12.4	12.4
87.5°	3.6	3.2	3.6	3.8	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)