

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: P974145

Luminaire Tested: FLR2-24-20-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974145
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-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L930-CP375
Ballast/Driver: -

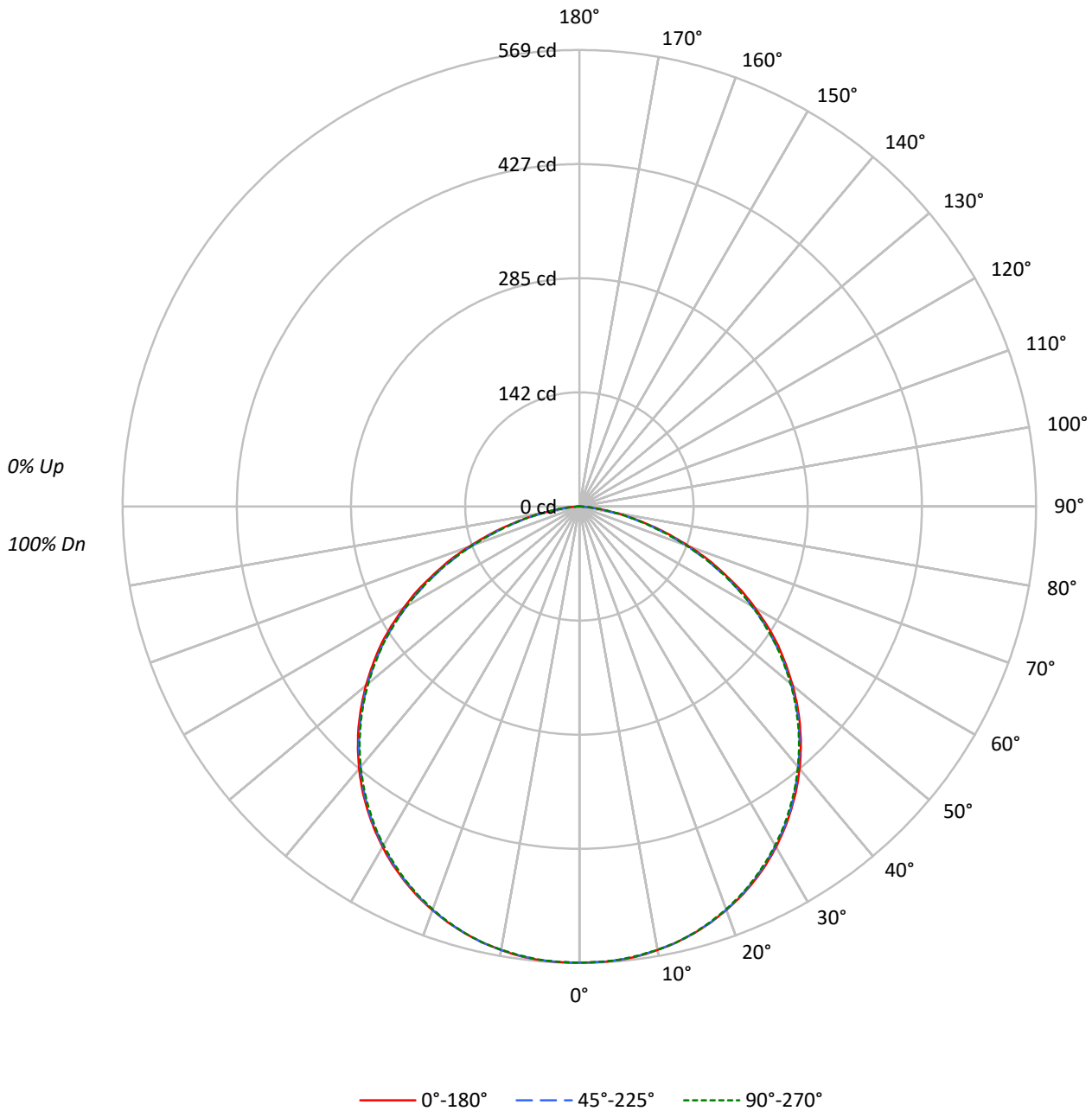
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1607.1 lumens
Efficiency: N/A
Efficacy: 96.2 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): 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				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	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°	765	765	765
5°	767	767	766
10°	767	767	767
15°	767	767	767
20°	767	766	765
25°	765	764	762
30°	762	759	758
35°	757	755	752
40°	750	745	744
45°	740	736	734
50°	726	721	719
55°	709	699	698
60°	680	668	668
65°	636	621	623
70°	572	555	553
75°	480	462	459
80°	351	333	348
85°	199	182	185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 740 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.4
10°-20°	155.5	9.7
20°-30°	237.1	14.8
30°-40°	287.2	17.9
40°-50°	298.4	18.6
50°-60°	266.9	16.6
60°-70°	194.5	12.1
70°-80°	96.3	6.0
80°-90°	17.2	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°	446.5	27.8
0°-40°	733.8	45.7
0°-60°	1299.0	80.8
0°-90°	1607.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1607.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	569	569	569	569	569	
5°	568	568	568	568	567	54
15°	551	551	551	551	551	156
25°	515	515	514	514	514	238
35°	461	460	460	459	458	288
45°	389	388	387	386	386	300
55°	302	300	298	298	298	269
65°	200	198	195	196	196	198
75°	92	91	89	90	88	99
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°	568.6	568.6	568.6	568.6	568.6
2.5°	568.6	568.4	568.4	568.6	568.2
5°	567.6	567.8	567.6	567.6	567.2
7.5°	565.4	565.2	564.9	565.2	564.5
10°	561.5	561.5	561.3	561.5	561.1
12.5°	556.8	556.8	556.8	557.0	556.8
15°	550.9	550.7	550.7	551.1	550.7
17.5°	543.9	543.7	543.7	543.5	543.1
20°	535.4	535.4	535.2	535.0	534.3
22.5°	526.2	526.0	525.4	525.4	524.6
25°	515.4	514.8	514.3	514.1	513.5
27.5°	503.5	502.7	502.1	501.7	501.1
30°	490.3	489.5	488.8	488.2	487.8
32.5°	476.0	475.6	474.6	474.4	473.5
35°	460.7	460.1	459.5	458.7	457.8
37.5°	444.4	443.8	442.3	441.9	441.3
40°	427.0	426.2	424.4	424.4	423.8
42.5°	408.5	407.6	406.4	405.6	405.2
45°	389.1	388.3	386.8	386.0	385.6
47.5°	368.5	367.9	366.2	365.6	365.0
50°	347.0	346.2	344.4	344.0	343.4
52.5°	324.6	324.2	321.7	321.5	320.9
55°	302.4	300.1	298.1	298.1	297.7
57.5°	277.9	276.3	273.6	273.6	273.2
60°	252.6	251.2	248.1	248.5	248.1
62.5°	227.9	224.8	222.0	223.2	222.2
65°	199.7	198.1	195.0	195.9	195.7
67.5°	174.0	171.0	168.1	169.7	168.9
70°	145.5	143.8	141.0	142.6	140.6
72.5°	118.5	117.1	114.3	116.1	114.1
75°	92.4	91.0	88.8	90.4	88.3
77.5°	67.7	66.7	64.7	66.3	66.7
80°	45.3	44.1	43.0	44.5	44.9
82.5°	26.5	25.7	25.3	25.5	26.5
85°	12.9	11.8	11.8	12.0	12.0
87.5°	3.5	3.1	3.5	3.7	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)