

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: P973589

Luminaire Tested: FLR2-22-20-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-20-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

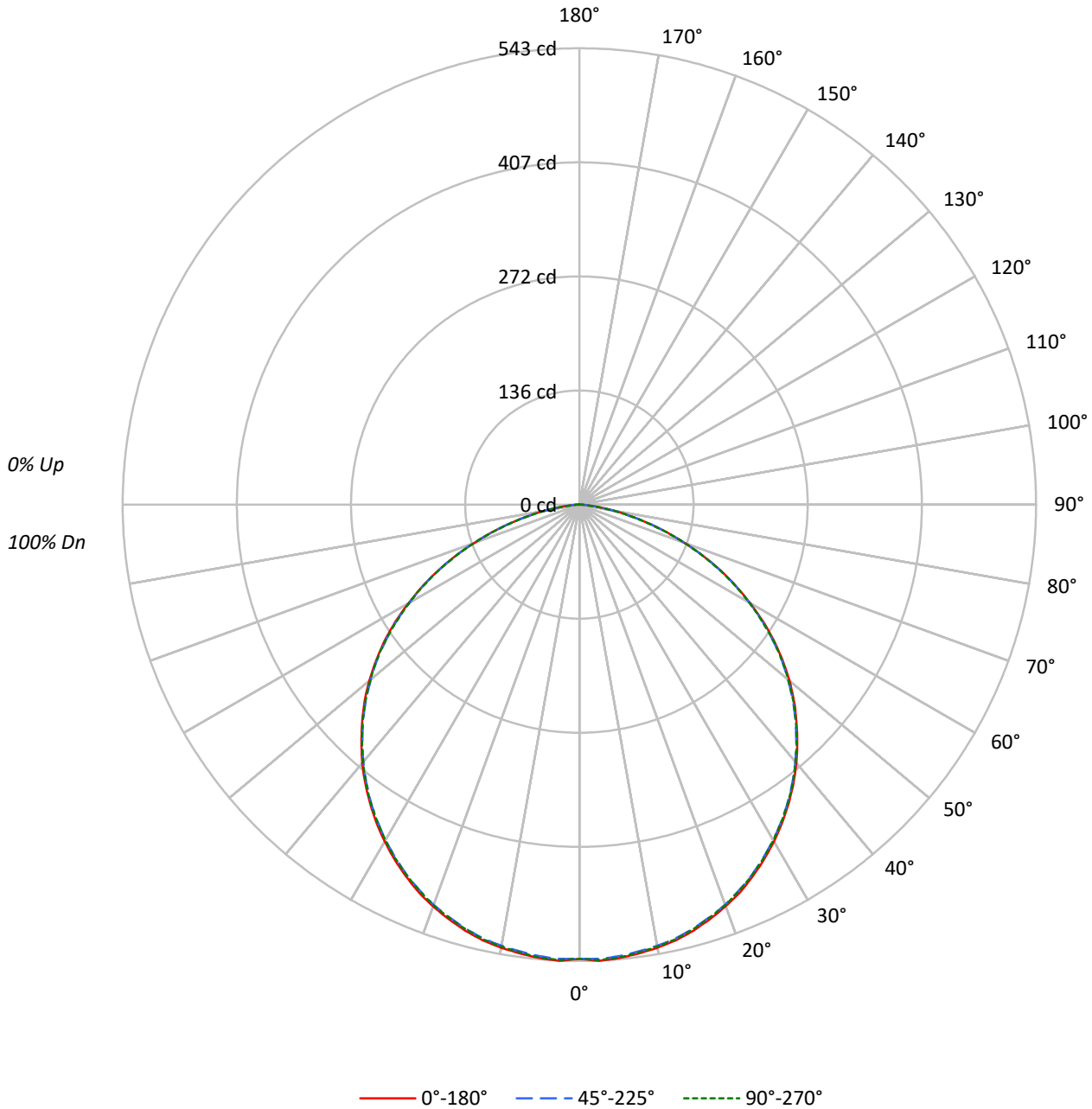
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.2 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
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										
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	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						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1454	1454	1454
5°	1463	1457	1461
10°	1463	1456	1459
15°	1462	1455	1457
20°	1457	1451	1453
25°	1449	1443	1444
30°	1438	1432	1433
35°	1425	1420	1421
40°	1410	1403	1404
45°	1389	1383	1386
50°	1365	1355	1358
55°	1326	1316	1320
60°	1261	1256	1256
65°	1177	1175	1171
70°	1042	1048	1045
75°	878	871	864
80°	631	621	615
85°	330	330	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.2	3.4
10°-20°	147.2	9.7
20°-30°	223.6	14.8
30°-40°	270.3	17.9
40°-50°	280.5	18.6
50°-60°	250.8	16.6
60°-70°	182.4	12.1
70°-80°	89.7	5.9
80°-90°	15.6	1.0
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°	421.9	27.9
0°-40°	692.2	45.8
0°-60°	1223.6	81.0
0°-90°	1511.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	540	540	540	540	540	
5°	542	535	539	537	541	51
15°	525	519	522	521	523	148
25°	488	483	486	485	486	225
35°	434	431	432	433	433	271
45°	365	364	364	364	364	282
55°	283	281	280	281	281	252
65°	185	186	185	185	184	182
75°	84	85	84	84	83	90
85°	11	11	11	11	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	540.4	540.4	540.4	540.4	540.4
2.5°	543.4	537.0	541.0	538.7	542.4
5°	541.7	535.4	539.4	537.4	541.0
7.5°	538.7	532.4	536.4	534.4	537.4
10°	535.4	528.7	533.0	531.0	534.0
12.5°	531.0	524.7	528.7	527.0	529.7
15°	524.7	518.7	522.3	521.0	523.0
17.5°	517.0	511.0	514.7	513.7	515.3
20°	508.7	503.0	506.7	505.7	507.3
22.5°	499.3	493.3	496.6	496.0	497.3
25°	488.0	482.6	486.0	485.0	486.3
27.5°	475.9	470.9	473.6	473.6	474.3
30°	462.9	458.3	460.9	460.9	461.3
32.5°	448.9	445.2	446.9	447.2	447.2
35°	433.9	430.9	432.2	432.6	432.6
37.5°	418.2	415.2	416.2	416.9	416.9
40°	401.5	398.8	399.5	400.2	399.8
42.5°	383.5	381.5	381.8	382.5	382.5
45°	365.1	363.5	363.5	364.1	364.1
47.5°	346.4	344.8	344.1	344.8	344.8
50°	326.1	324.4	323.7	324.4	324.4
52.5°	304.7	303.1	303.1	303.1	303.4
55°	282.7	281.0	280.4	281.0	281.4
57.5°	259.3	258.7	257.7	258.0	257.0
60°	234.3	234.3	233.3	234.0	233.3
62.5°	209.9	210.6	209.6	209.6	208.9
65°	184.9	185.6	184.6	184.6	183.9
67.5°	159.2	160.2	158.9	158.9	158.2
70°	132.5	134.5	133.2	133.5	132.8
72.5°	108.5	109.5	108.1	108.1	107.5
75°	84.4	85.1	83.8	84.1	83.1
77.5°	60.7	61.7	60.4	60.7	60.4
80°	40.7	41.1	40.1	40.4	39.7
82.5°	23.7	24.0	23.7	23.4	23.0
85°	10.7	11.0	10.7	10.7	10.3
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)