

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: P973601

Luminaire Tested: FLR2-22-20-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973601
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

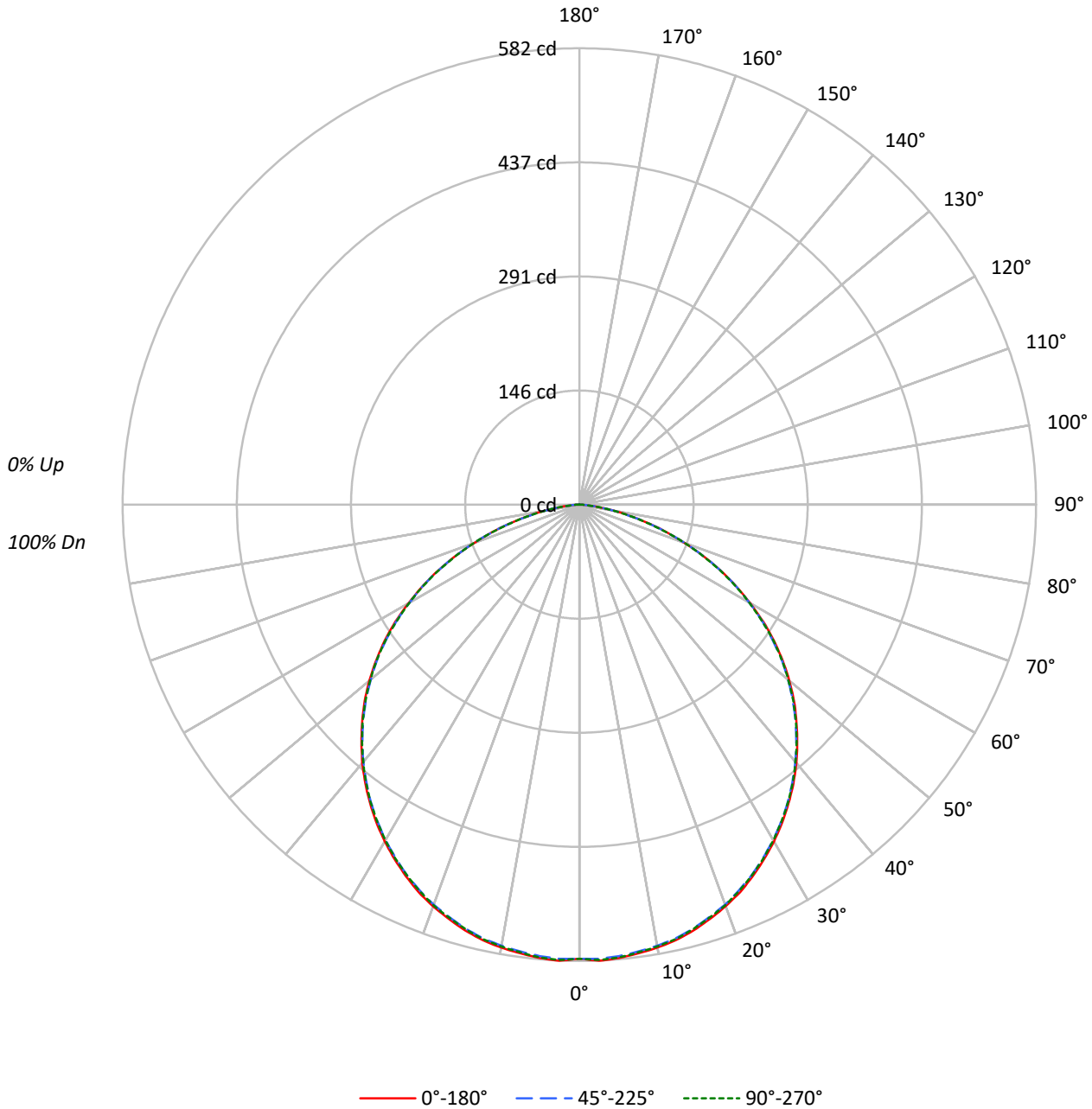
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1619.4 lumens
Efficiency: N/A
Efficacy: 107.2 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

TEST NUMBER: P973601
CATALOG NUMBER: FLR2-22-20-L935-CA080

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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1558	1558	1558
5°	1568	1561	1566
10°	1568	1561	1564
15°	1567	1560	1562
20°	1561	1555	1557
25°	1553	1546	1547
30°	1542	1535	1536
35°	1528	1522	1523
40°	1512	1504	1505
45°	1489	1482	1485
50°	1463	1452	1456
55°	1421	1409	1415
60°	1351	1345	1345
65°	1262	1259	1255
70°	1117	1123	1120
75°	941	934	926
80°	676	665	660
85°	352	352	343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	3.4
10°-20°	157.7	9.7
20°-30°	239.6	14.8
30°-40°	289.6	17.9
40°-50°	300.6	18.6
50°-60°	268.8	16.6
60°-70°	195.4	12.1
70°-80°	96.1	5.9
80°-90°	16.7	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°	452.2	27.9
0°-40°	741.8	45.8
0°-60°	1311.2	81.0
0°-90°	1619.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1619.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	579	579	579	579	579	
5°	580	574	578	576	580	55
15°	562	556	560	558	560	159
25°	523	517	521	520	521	241
35°	465	462	463	464	464	291
45°	391	390	390	390	390	302
55°	303	301	300	301	302	270
65°	198	199	198	198	197	195
75°	90	91	90	90	89	96
85°	11	12	11	11	11	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	579.1	579.1	579.1	579.1	579.1
2.5°	582.3	575.5	579.8	577.3	581.2
5°	580.5	573.7	578.0	575.9	579.8
7.5°	577.3	570.5	574.8	572.6	575.9
10°	573.7	566.6	571.2	569.1	572.3
12.5°	569.1	562.3	566.6	564.8	567.6
15°	562.3	555.8	559.8	558.3	560.5
17.5°	554.0	547.6	551.5	550.5	552.2
20°	545.1	539.0	542.9	541.9	543.7
22.5°	535.1	528.6	532.2	531.5	532.9
25°	522.9	517.2	520.8	519.7	521.1
27.5°	510.0	504.7	507.5	507.5	508.3
30°	496.1	491.1	493.9	493.9	494.3
32.5°	481.1	477.1	478.9	479.3	479.3
35°	465.0	461.8	463.2	463.5	463.5
37.5°	448.2	444.9	446.0	446.7	446.7
40°	430.3	427.4	428.1	428.8	428.5
42.5°	411.0	408.8	409.2	409.9	409.9
45°	391.3	389.5	389.5	390.2	390.2
47.5°	371.3	369.5	368.8	369.5	369.5
50°	349.4	347.7	346.9	347.7	347.7
52.5°	326.6	324.8	324.8	324.8	325.1
55°	302.9	301.2	300.4	301.2	301.5
57.5°	277.9	277.2	276.1	276.5	275.4
60°	251.1	251.1	250.0	250.7	250.0
62.5°	225.0	225.7	224.6	224.6	223.9
65°	198.2	198.9	197.8	197.8	197.1
67.5°	170.6	171.7	170.3	170.3	169.5
70°	142.0	144.1	142.7	143.1	142.4
72.5°	116.2	117.3	115.9	115.9	115.2
75°	90.5	91.2	89.8	90.1	89.1
77.5°	65.1	66.2	64.7	65.1	64.7
80°	43.6	44.0	42.9	43.3	42.6
82.5°	25.4	25.8	25.4	25.0	24.7
85°	11.4	11.8	11.4	11.4	11.1
87.5°	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)