

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: P974326

Luminaire Tested: FLR2-24-55-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974326
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: FLR2-24-55-L840-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L840-CA080
Ballast/Driver: -

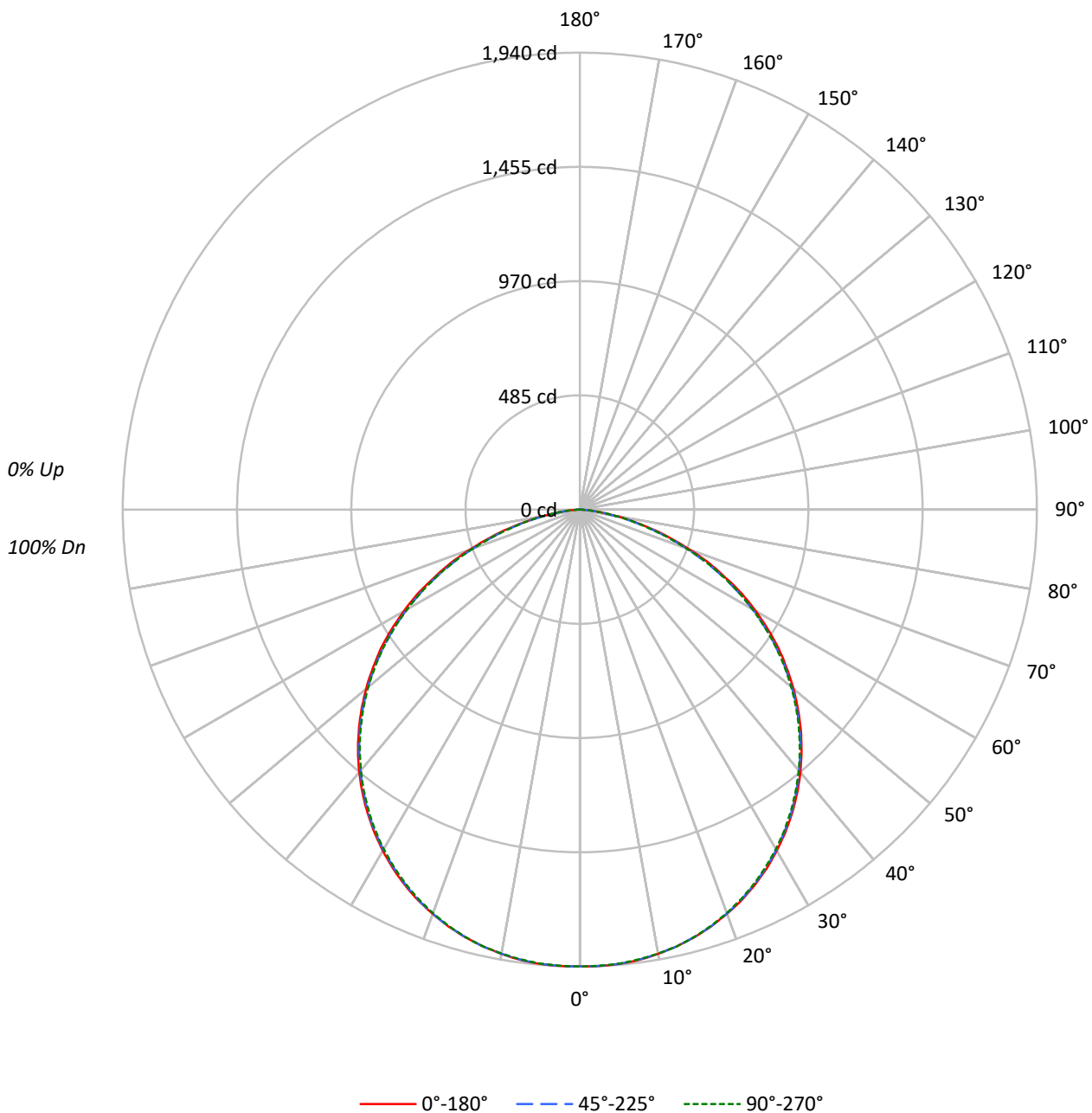
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5482.7 lumens
Efficiency: N/A
Efficacy: 124.3 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): 44.1
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				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°	2610	2610	2610
5°	2615	2615	2613
10°	2617	2616	2615
15°	2618	2617	2617
20°	2615	2614	2610
25°	2610	2605	2601
30°	2599	2591	2586
35°	2582	2575	2565
40°	2559	2543	2539
45°	2526	2511	2503
50°	2478	2459	2452
55°	2420	2385	2382
60°	2319	2278	2278
65°	2169	2118	2125
70°	1952	1892	1887
75°	1639	1574	1567
80°	1197	1138	1186
85°	678	624	634

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2526 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	3.4
10°-20°	530.5	9.7
20°-30°	808.8	14.8
30°-40°	979.9	17.9
40°-50°	1017.9	18.6
50°-60°	910.5	16.6
60°-70°	663.6	12.1
70°-80°	328.6	6.0
80°-90°	58.7	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°	1523.4	27.8
0°-40°	2503.3	45.7
0°-60°	4431.7	80.8
0°-90°	5482.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5482.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1936	1937	1936	1936	1935	184
15°	1879	1879	1879	1880	1879	531
25°	1758	1756	1755	1754	1752	810
35°	1572	1570	1568	1565	1562	983
45°	1327	1325	1320	1317	1316	1023
55°	1032	1024	1017	1017	1016	919
65°	681	676	665	668	668	676
75°	315	310	303	308	301	336
85°	44	40	40	41	41	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1939.9	1939.9	1939.9	1939.9	1939.9
2.5°	1939.9	1939.2	1939.2	1939.9	1938.5
5°	1936.4	1937.1	1936.4	1936.4	1935.0
7.5°	1928.8	1928.1	1927.4	1928.1	1926.0
10°	1915.5	1915.5	1914.8	1915.5	1914.1
12.5°	1899.5	1899.5	1899.5	1900.2	1899.5
15°	1879.3	1878.6	1878.6	1880.0	1878.6
17.5°	1855.7	1855.0	1855.0	1854.3	1852.9
20°	1826.4	1826.4	1825.7	1825.0	1823.0
22.5°	1795.1	1794.4	1792.3	1792.3	1789.5
25°	1758.2	1756.1	1754.7	1754.1	1752.0
27.5°	1717.9	1715.1	1713.0	1711.6	1709.5
30°	1672.6	1669.8	1667.7	1665.7	1664.3
32.5°	1623.9	1622.5	1619.0	1618.3	1615.5
35°	1571.7	1569.6	1567.5	1564.7	1561.9
37.5°	1516.0	1513.9	1509.0	1507.6	1505.6
40°	1456.8	1454.1	1447.8	1447.8	1445.7
42.5°	1393.5	1390.7	1386.5	1383.8	1382.4
45°	1327.4	1324.6	1319.7	1316.9	1315.5
47.5°	1257.1	1255.0	1249.4	1247.3	1245.2
50°	1184.0	1181.2	1174.9	1173.5	1171.5
52.5°	1107.4	1106.0	1097.7	1097.0	1094.9
55°	1031.5	1023.9	1016.9	1016.9	1015.5
57.5°	948.0	942.5	933.4	933.4	932.0
60°	861.7	856.8	846.4	847.8	846.4
62.5°	777.5	767.0	757.3	761.5	758.0
65°	681.4	675.9	665.4	668.2	667.5
67.5°	593.7	583.3	573.5	579.1	576.3
70°	496.3	490.7	481.0	486.5	479.6
72.5°	404.4	399.5	389.8	396.1	389.1
75°	315.3	310.4	302.8	308.4	301.4
77.5°	231.1	227.6	220.6	226.2	227.6
80°	154.5	150.3	146.9	151.7	153.1
82.5°	90.5	87.7	86.3	87.0	90.5
85°	43.9	40.4	40.4	41.1	41.1
87.5°	11.8	10.4	11.8	12.5	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)