

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: P974851

Luminaire Tested: FLR2-24-55HE-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974851
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: FLR2-24-55HE-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

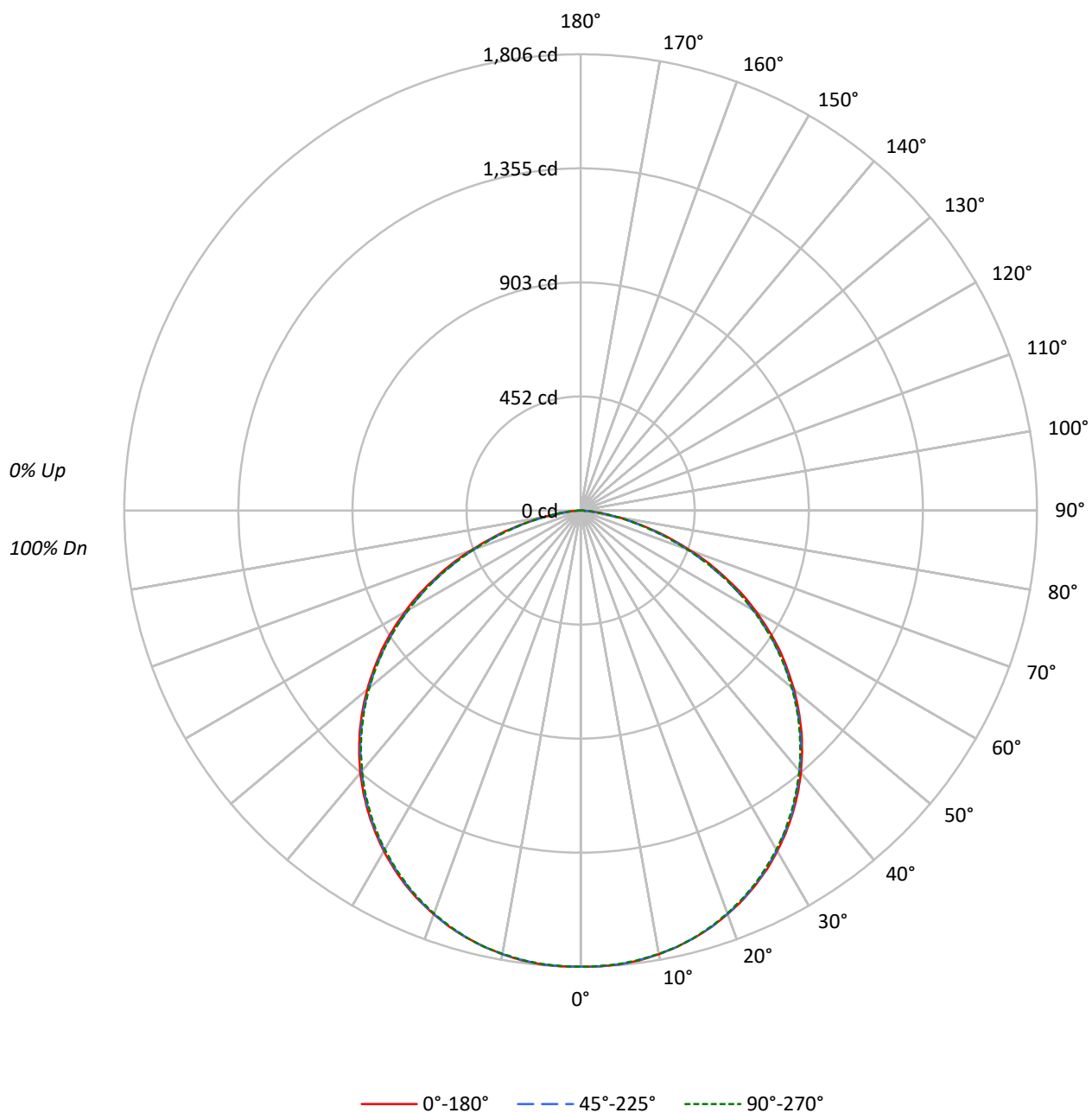
Lumens per Lamp: N/A
Luminaire Lumens: 5104.7 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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

TEST NUMBER: P974851

CATALOG NUMBER: FLR2-24-55HE-L840-CP250

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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2430	2430	2430
5°	2435	2435	2433
10°	2437	2436	2435
15°	2437	2436	2436
20°	2435	2434	2430
25°	2430	2426	2422
30°	2419	2412	2407
35°	2404	2397	2389
40°	2382	2368	2364
45°	2352	2338	2331
50°	2308	2290	2283
55°	2253	2221	2218
60°	2159	2120	2120
65°	2020	1972	1979
70°	1818	1762	1757
75°	1526	1465	1459
80°	1115	1059	1105
85°	630	580	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2352 cd/sqm

TEST NUMBER: P974851

CATALOG NUMBER: FLR2-24-55HE-L840-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	3.4
10°-20°	493.9	9.7
20°-30°	753.0	14.8
30°-40°	912.3	17.9
40°-50°	947.7	18.6
50°-60°	847.8	16.6
60°-70°	617.9	12.1
70°-80°	306.0	6.0
80°-90°	54.7	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°	1418.4	27.8
0°-40°	2330.7	45.7
0°-60°	4126.2	80.8
0°-90°	5104.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1806	1806	1806	1806	1806	
5°	1803	1804	1803	1803	1802	171
15°	1750	1749	1749	1750	1749	494
25°	1637	1635	1634	1633	1631	754
35°	1463	1461	1459	1457	1454	915
45°	1236	1233	1229	1226	1225	952
55°	960	953	947	947	946	856
65°	634	629	620	622	622	629
75°	294	289	282	287	281	313
85°	41	38	38	38	38	57
90°	0	0	0	0	0	

TEST NUMBER: P974851

CATALOG NUMBER: FLR2-24-55HE-L840-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1806.1	1806.1	1806.1	1806.1	1806.1
2.5°	1806.1	1805.5	1805.5	1806.1	1804.8
5°	1802.9	1803.6	1802.9	1802.9	1801.6
7.5°	1795.8	1795.1	1794.5	1795.1	1793.2
10°	1783.5	1783.5	1782.8	1783.5	1782.2
12.5°	1768.6	1768.6	1768.6	1769.2	1768.6
15°	1749.8	1749.1	1749.1	1750.4	1749.1
17.5°	1727.7	1727.1	1727.1	1726.4	1725.1
20°	1700.5	1700.5	1699.9	1699.2	1697.3
22.5°	1671.3	1670.7	1668.8	1668.8	1666.2
25°	1637.0	1635.1	1633.8	1633.1	1631.2
27.5°	1599.4	1596.8	1594.9	1593.6	1591.6
30°	1557.3	1554.7	1552.8	1550.8	1549.5
32.5°	1511.9	1510.6	1507.4	1506.7	1504.1
35°	1463.3	1461.4	1459.4	1456.8	1454.2
37.5°	1411.5	1409.5	1405.0	1403.7	1401.8
40°	1356.4	1353.8	1348.0	1348.0	1346.0
42.5°	1297.4	1294.8	1290.9	1288.3	1287.0
45°	1235.9	1233.3	1228.7	1226.1	1224.8
47.5°	1170.4	1168.5	1163.3	1161.3	1159.4
50°	1102.4	1099.8	1093.9	1092.6	1090.7
52.5°	1031.1	1029.8	1022.0	1021.3	1019.4
55°	960.4	953.3	946.8	946.8	945.5
57.5°	882.7	877.5	869.0	869.0	867.8
60°	802.3	797.8	788.0	789.3	788.0
62.5°	723.9	714.2	705.1	709.0	705.7
65°	634.5	629.3	619.5	622.1	621.5
67.5°	552.8	543.1	534.0	539.2	536.6
70°	462.1	456.9	447.8	453.0	446.5
72.5°	376.5	372.0	362.9	368.7	362.3
75°	293.6	289.0	281.9	287.1	280.6
77.5°	215.2	211.9	205.4	210.6	211.9
80°	143.9	140.0	136.7	141.3	142.6
82.5°	84.2	81.7	80.4	81.0	84.2
85°	40.8	37.6	37.6	38.2	38.2
87.5°	11.0	9.7	11.0	11.7	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)