

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: P974719

Luminaire Tested: FLR2-24-55HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974719
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-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

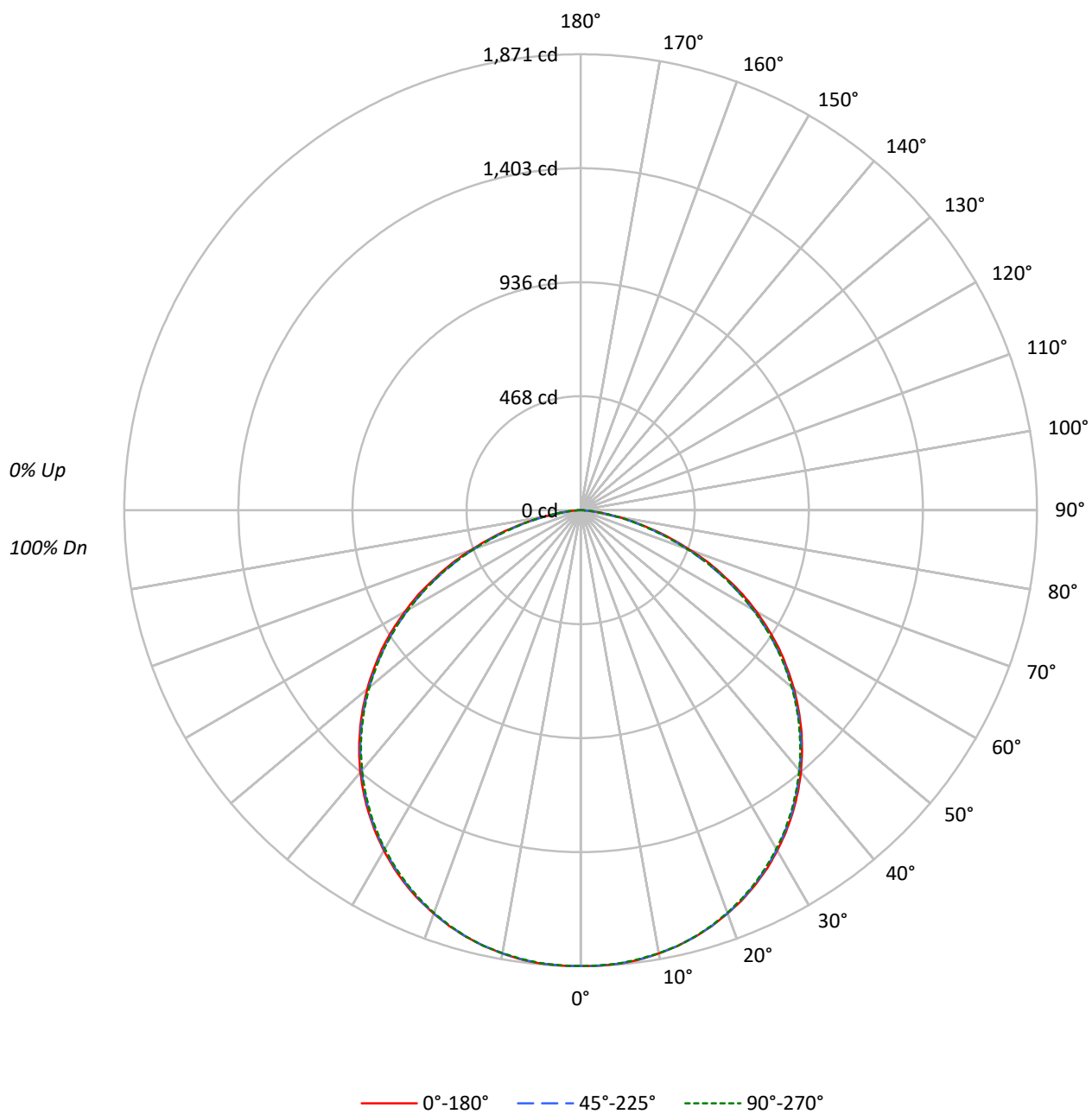
Lumens per Lamp: N/A
Luminaire Lumens: 5287.6 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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					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°	2517	2517	2517
5°	2522	2522	2521
10°	2524	2523	2522
15°	2525	2524	2524
20°	2522	2521	2517
25°	2517	2512	2508
30°	2506	2499	2494
35°	2490	2483	2474
40°	2468	2452	2449
45°	2436	2422	2414
50°	2390	2372	2365
55°	2334	2301	2297
60°	2236	2197	2197
65°	2092	2043	2050
70°	1883	1825	1819
75°	1581	1518	1511
80°	1155	1097	1144
85°	653	601	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	3.4
10°-20°	511.6	9.7
20°-30°	780.0	14.8
30°-40°	945.0	17.9
40°-50°	981.6	18.6
50°-60°	878.1	16.6
60°-70°	640.0	12.1
70°-80°	317.0	6.0
80°-90°	56.7	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°	1469.2	27.8
0°-40°	2414.2	45.7
0°-60°	4274.0	80.8
0°-90°	5287.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5287.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1871	1871	1871	1871	1871	
5°	1868	1868	1868	1868	1866	178
15°	1812	1812	1812	1813	1812	512
25°	1696	1694	1692	1692	1690	781
35°	1516	1514	1512	1509	1506	948
45°	1280	1278	1273	1270	1269	987
55°	995	988	981	981	979	886
65°	657	652	642	644	644	652
75°	304	299	292	297	291	324
85°	42	39	39	40	40	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1870.9	1870.9	1870.9	1870.9	1870.9
2.5°	1870.9	1870.2	1870.2	1870.9	1869.5
5°	1867.5	1868.2	1867.5	1867.5	1866.2
7.5°	1860.1	1859.5	1858.8	1859.5	1857.4
10°	1847.4	1847.4	1846.7	1847.4	1846.0
12.5°	1831.9	1831.9	1831.9	1832.6	1831.9
15°	1812.5	1811.8	1811.8	1813.1	1811.8
17.5°	1789.6	1789.0	1789.0	1788.3	1787.0
20°	1761.4	1761.4	1760.8	1760.1	1758.1
22.5°	1731.2	1730.6	1728.6	1728.6	1725.9
25°	1695.7	1693.6	1692.3	1691.6	1689.6
27.5°	1656.7	1654.0	1652.0	1650.7	1648.7
30°	1613.1	1610.4	1608.4	1606.4	1605.0
32.5°	1566.1	1564.8	1561.4	1560.7	1558.0
35°	1515.8	1513.7	1511.7	1509.0	1506.4
37.5°	1462.1	1460.0	1455.3	1454.0	1452.0
40°	1405.0	1402.3	1396.3	1396.3	1394.3
42.5°	1343.9	1341.2	1337.2	1334.5	1333.2
45°	1280.1	1277.5	1272.8	1270.1	1268.7
47.5°	1212.3	1210.3	1205.0	1202.9	1200.9
50°	1141.9	1139.2	1133.1	1131.8	1129.8
52.5°	1068.0	1066.7	1058.6	1057.9	1055.9
55°	994.8	987.5	980.7	980.7	979.4
57.5°	914.3	908.9	900.2	900.2	898.8
60°	831.0	826.3	816.3	817.6	816.3
62.5°	749.8	739.8	730.4	734.4	731.0
65°	657.2	651.8	641.7	644.4	643.8
67.5°	572.6	562.5	553.1	558.5	555.8
70°	478.6	473.3	463.9	469.2	462.5
72.5°	390.0	385.3	375.9	382.0	375.2
75°	304.1	299.4	292.0	297.4	290.7
77.5°	222.9	219.5	212.8	218.2	219.5
80°	149.0	145.0	141.6	146.3	147.7
82.5°	87.3	84.6	83.2	83.9	87.3
85°	42.3	38.9	38.9	39.6	39.6
87.5°	11.4	10.1	11.4	12.1	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)