

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: P974962

Luminaire Tested: FLR2-24-65HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974962
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: FLR2-24-65HE-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

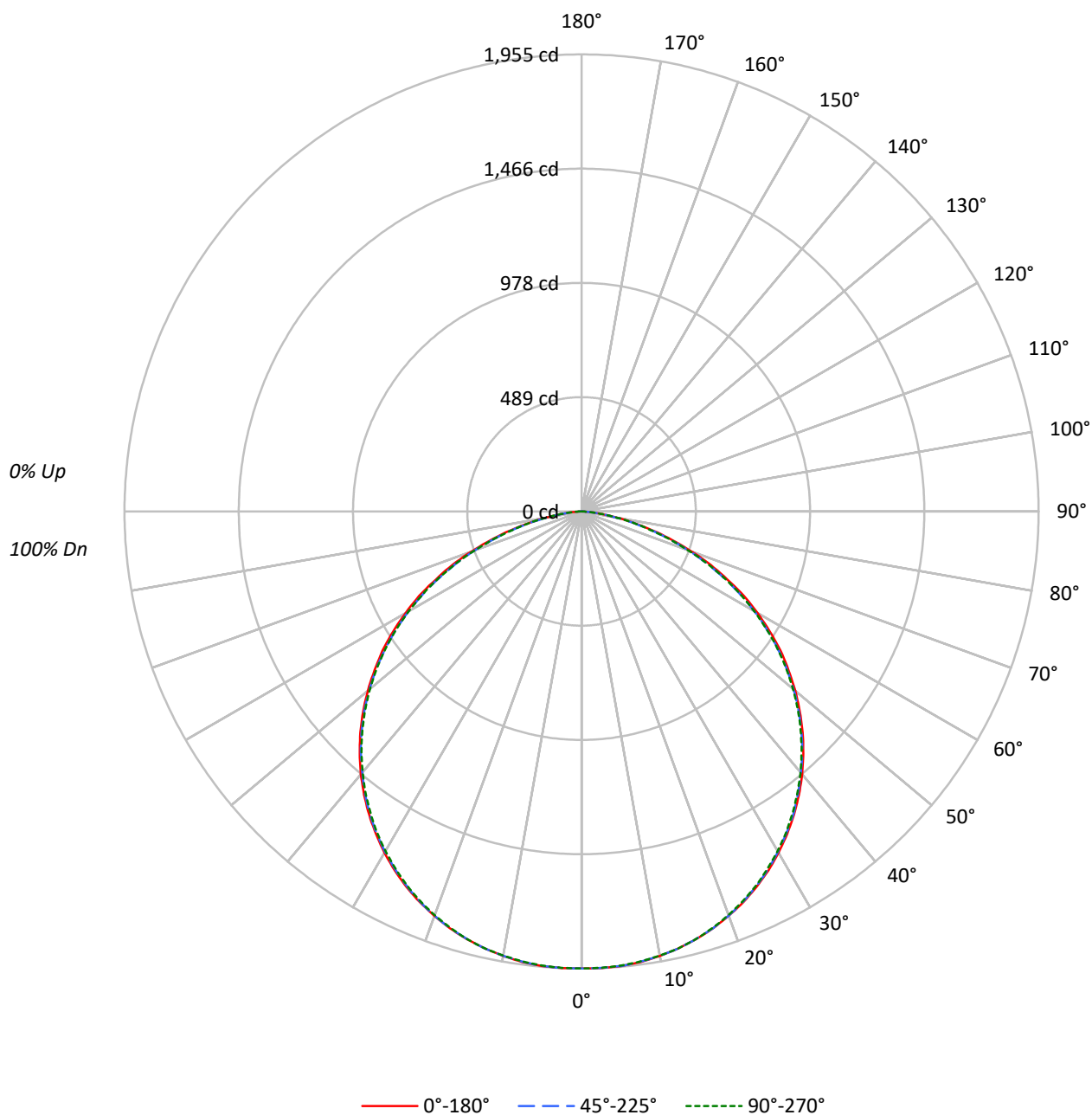
Lumens per Lamp: N/A
Luminaire Lumens: 5526.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	2631	2631	2631
5°	2636	2636	2634
10°	2638	2637	2636
15°	2639	2638	2638
20°	2636	2635	2631
25°	2631	2626	2621
30°	2619	2612	2606
35°	2602	2595	2586
40°	2579	2563	2559
45°	2546	2531	2523
50°	2498	2479	2471
55°	2439	2404	2401
60°	2337	2296	2296
65°	2187	2135	2142
70°	1968	1907	1902
75°	1652	1587	1579
80°	1206	1147	1196
85°	682	628	639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	3.4
10°-20°	534.7	9.7
20°-30°	815.2	14.8
30°-40°	987.7	17.9
40°-50°	1025.9	18.6
50°-60°	917.8	16.6
60°-70°	668.9	12.1
70°-80°	331.3	6.0
80°-90°	59.2	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°	1535.4	27.8
0°-40°	2523.1	45.7
0°-60°	4466.7	80.8
0°-90°	5526.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5526.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1952	1952	1952	1952	1950	186
15°	1894	1894	1894	1895	1894	535
25°	1772	1770	1769	1768	1766	817
35°	1584	1582	1580	1577	1574	991
45°	1338	1335	1330	1327	1326	1031
55°	1040	1032	1025	1025	1024	926
65°	687	681	671	674	673	681
75°	318	313	305	311	304	339
85°	44	41	41	41	41	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1955.2	1954.5	1954.5	1955.2	1953.8
5°	1951.7	1952.4	1951.7	1951.7	1950.3
7.5°	1944.0	1943.3	1942.6	1943.3	1941.2
10°	1930.7	1930.7	1930.0	1930.7	1929.3
12.5°	1914.5	1914.5	1914.5	1915.2	1914.5
15°	1894.2	1893.5	1893.5	1894.9	1893.5
17.5°	1870.3	1869.6	1869.6	1868.9	1867.5
20°	1840.9	1840.9	1840.2	1839.5	1837.4
22.5°	1809.3	1808.6	1806.5	1806.5	1803.7
25°	1772.1	1770.0	1768.6	1767.9	1765.8
27.5°	1731.4	1728.6	1726.5	1725.1	1723.0
30°	1685.8	1683.0	1680.9	1678.8	1677.4
32.5°	1636.7	1635.3	1631.8	1631.1	1628.3
35°	1584.1	1582.0	1579.9	1577.1	1574.3
37.5°	1528.0	1525.9	1521.0	1519.6	1517.5
40°	1468.4	1465.5	1459.2	1459.2	1457.1
42.5°	1404.5	1401.7	1397.5	1394.7	1393.3
45°	1337.9	1335.1	1330.1	1327.3	1325.9
47.5°	1267.0	1264.9	1259.3	1257.2	1255.1
50°	1193.3	1190.5	1184.2	1182.8	1180.7
52.5°	1116.2	1114.8	1106.3	1105.6	1103.5
55°	1039.7	1032.0	1025.0	1025.0	1023.6
57.5°	955.5	949.9	940.8	940.8	939.4
60°	868.5	863.6	853.1	854.5	853.1
62.5°	783.6	773.1	763.3	767.5	764.0
65°	686.8	681.2	670.7	673.5	672.8
67.5°	598.4	587.9	578.1	583.7	580.9
70°	500.2	494.6	484.8	490.4	483.4
72.5°	407.6	402.7	392.9	399.2	392.2
75°	317.8	312.9	305.2	310.8	303.8
77.5°	232.9	229.4	222.4	228.0	229.4
80°	155.7	151.5	148.0	152.9	154.3
82.5°	91.2	88.4	87.0	87.7	91.2
85°	44.2	40.7	40.7	41.4	41.4
87.5°	11.9	10.5	11.9	12.6	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)