

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: P974830

Luminaire Tested: FLR2-24-65HE-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974830
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-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

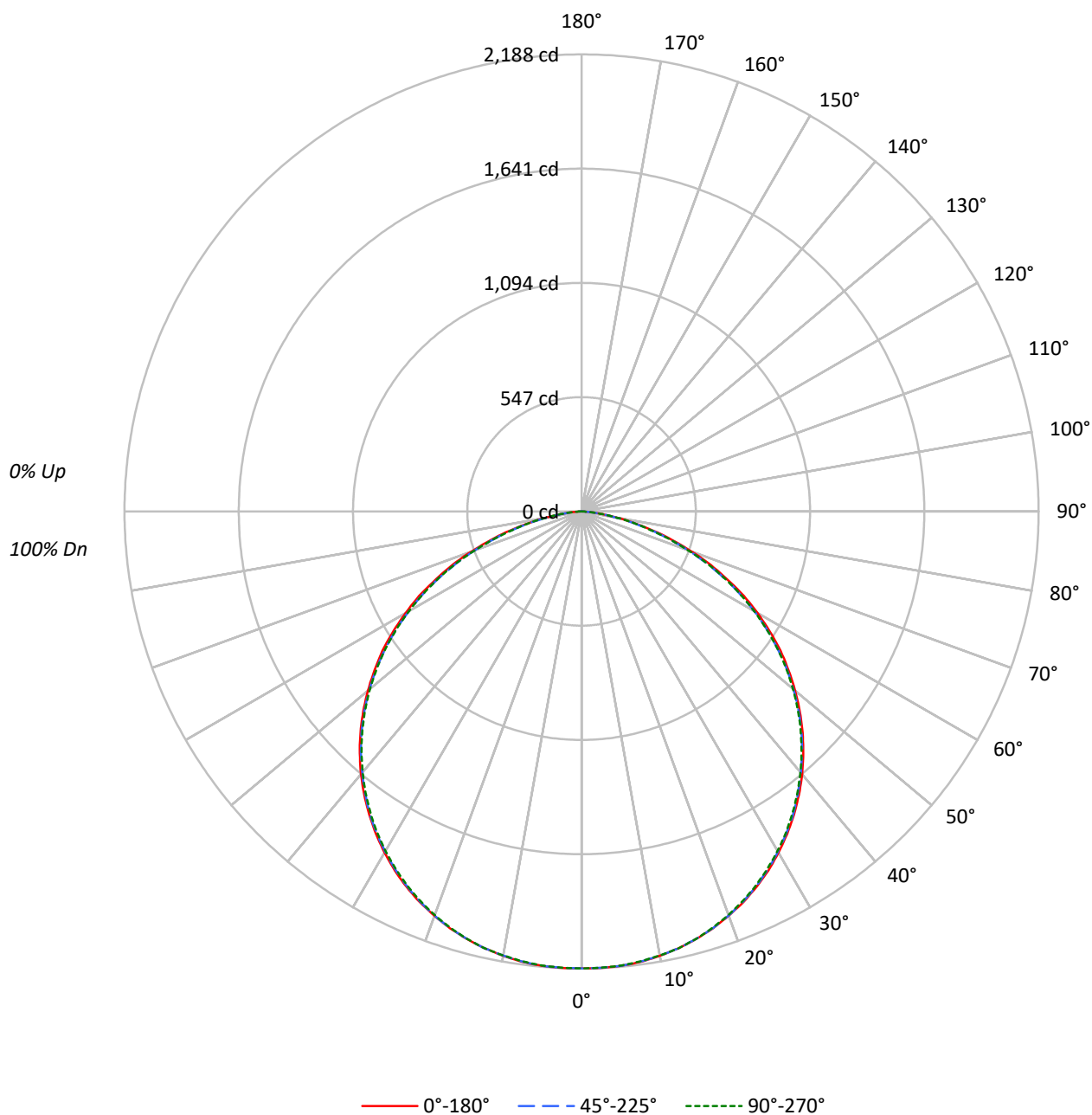
Lumens per Lamp: N/A
Luminaire Lumens: 6183.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2944	2944	2944
5°	2949	2949	2947
10°	2951	2950	2949
15°	2952	2951	2951
20°	2949	2948	2944
25°	2944	2938	2933
30°	2930	2922	2916
35°	2911	2904	2893
40°	2886	2868	2863
45°	2848	2832	2823
50°	2795	2774	2765
55°	2729	2690	2686
60°	2615	2569	2569
65°	2447	2389	2397
70°	2202	2134	2127
75°	1849	1775	1767
80°	1351	1283	1338
85°	764	702	715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2848 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	3.4
10°-20°	598.2	9.7
20°-30°	912.1	14.8
30°-40°	1105.1	17.9
40°-50°	1147.9	18.6
50°-60°	1026.9	16.6
60°-70°	748.4	12.1
70°-80°	370.6	6.0
80°-90°	66.2	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°	1718.0	27.8
0°-40°	2823.0	45.7
0°-60°	4997.7	80.8
0°-90°	6183.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6183.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2188	2188	2188	2188	2188	
5°	2184	2184	2184	2184	2182	208
15°	2119	2119	2119	2120	2119	598
25°	1983	1980	1979	1978	1976	914
35°	1772	1770	1768	1765	1761	1109
45°	1497	1494	1488	1485	1484	1154
55°	1163	1155	1147	1147	1145	1036
65°	768	762	750	754	753	762
75°	356	350	342	348	340	379
85°	50	46	46	46	46	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2187.7	2187.7	2187.7	2187.7	2187.7
2.5°	2187.7	2186.9	2186.9	2187.7	2186.1
5°	2183.7	2184.5	2183.7	2183.7	2182.2
7.5°	2175.1	2174.3	2173.5	2174.3	2172.0
10°	2160.2	2160.2	2159.4	2160.2	2158.6
12.5°	2142.1	2142.1	2142.1	2142.9	2142.1
15°	2119.4	2118.6	2118.6	2120.2	2118.6
17.5°	2092.7	2091.9	2091.9	2091.1	2089.5
20°	2059.7	2059.7	2058.9	2058.1	2055.8
22.5°	2024.4	2023.6	2021.3	2021.3	2018.1
25°	1982.8	1980.4	1978.9	1978.1	1975.7
27.5°	1937.3	1934.1	1931.8	1930.2	1927.8
30°	1886.2	1883.1	1880.7	1878.4	1876.8
32.5°	1831.3	1829.7	1825.8	1825.0	1821.9
35°	1772.4	1770.1	1767.7	1764.6	1761.4
37.5°	1709.6	1707.3	1701.8	1700.2	1697.9
40°	1642.9	1639.8	1632.7	1632.7	1630.3
42.5°	1571.5	1568.3	1563.6	1560.5	1558.9
45°	1496.9	1493.8	1488.3	1485.1	1483.6
47.5°	1417.6	1415.3	1409.0	1406.6	1404.3
50°	1335.2	1332.1	1325.0	1323.4	1321.1
52.5°	1248.9	1247.3	1237.9	1237.1	1234.7
55°	1163.3	1154.7	1146.8	1146.8	1145.2
57.5°	1069.1	1062.8	1052.6	1052.6	1051.1
60°	971.8	966.3	954.5	956.1	954.5
62.5°	876.8	865.0	854.0	858.7	854.8
65°	768.5	762.2	750.4	753.6	752.8
67.5°	669.6	657.8	646.8	653.1	649.9
70°	559.7	553.4	542.4	548.7	540.8
72.5°	456.1	450.6	439.6	446.6	438.8
75°	355.6	350.1	341.5	347.7	339.9
77.5°	260.6	256.7	248.8	255.1	256.7
80°	174.3	169.5	165.6	171.1	172.7
82.5°	102.0	98.9	97.3	98.1	102.0
85°	49.5	45.5	45.5	46.3	46.3
87.5°	13.3	11.8	13.3	14.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)