

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: P974981

Luminaire Tested: FLR2-24-40HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974981
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: FLR2-24-40HE-L850-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

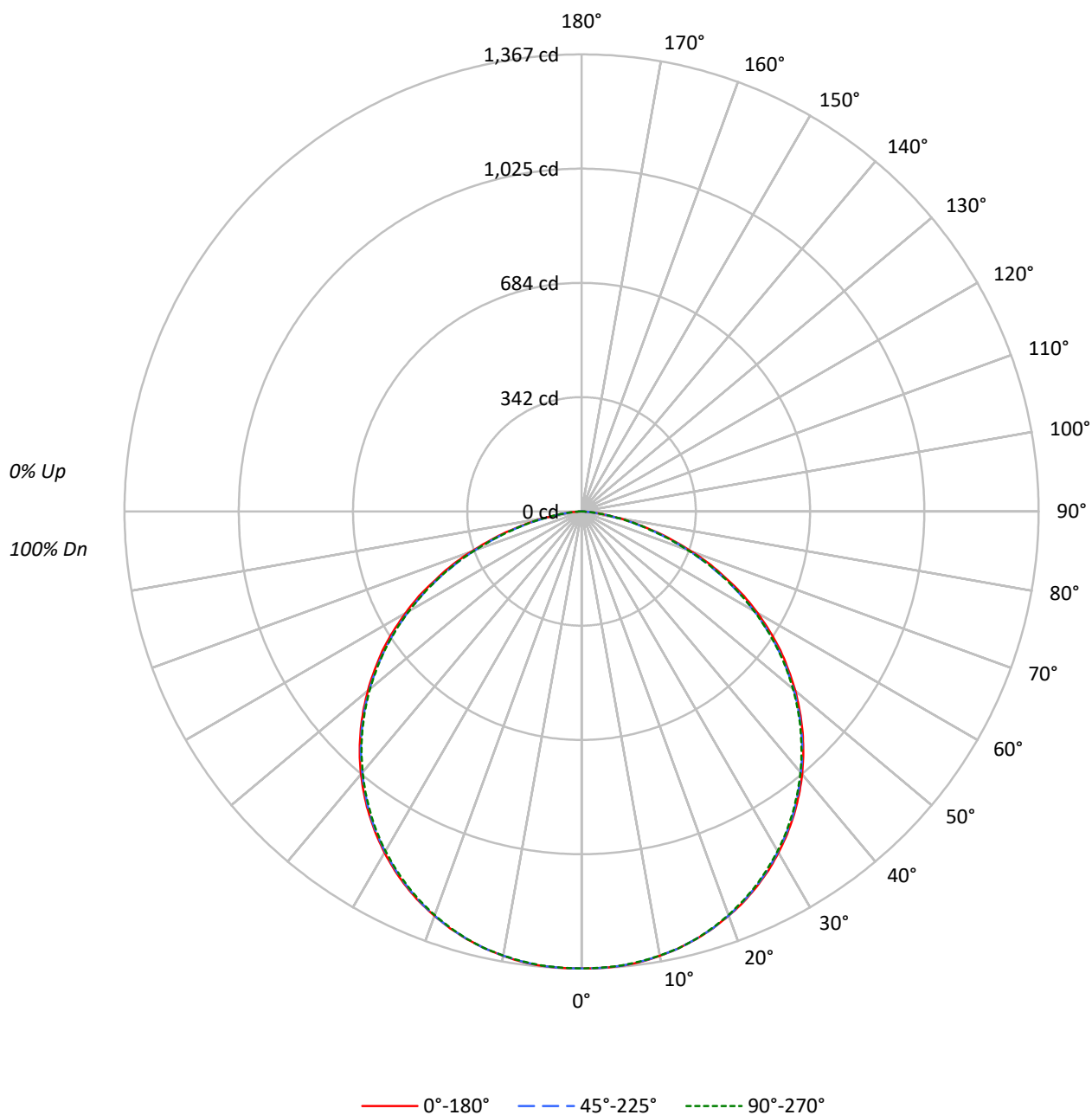
Lumens per Lamp: N/A
Luminaire Lumens: 3863.3 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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°	1839	1839	1839
5°	1843	1843	1842
10°	1844	1843	1843
15°	1845	1844	1844
20°	1843	1842	1839
25°	1839	1836	1833
30°	1831	1826	1822
35°	1819	1814	1808
40°	1803	1792	1789
45°	1780	1769	1764
50°	1746	1733	1728
55°	1705	1681	1679
60°	1634	1605	1605
65°	1529	1493	1498
70°	1376	1333	1329
75°	1155	1109	1104
80°	844	802	836
85°	477	438	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1780 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.4
10°-20°	373.8	9.7
20°-30°	569.9	14.8
30°-40°	690.5	17.9
40°-50°	717.2	18.6
50°-60°	641.6	16.6
60°-70°	467.6	12.1
70°-80°	231.6	6.0
80°-90°	41.4	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°	1073.4	27.8
0°-40°	1763.9	45.7
0°-60°	3122.8	80.8
0°-90°	3863.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3863.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1367	1367	1367	1367	1367	
5°	1364	1365	1364	1364	1364	130
15°	1324	1324	1324	1325	1324	374
25°	1239	1237	1236	1236	1234	571
35°	1108	1106	1104	1103	1101	693
45°	935	933	930	928	927	721
55°	727	722	717	717	716	648
65°	480	476	469	471	470	476
75°	222	219	213	217	212	237
85°	31	28	28	29	29	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1366.9	1366.9	1366.9	1366.9	1366.9
2.5°	1366.9	1366.4	1366.4	1366.9	1365.9
5°	1364.5	1365.0	1364.5	1364.5	1363.5
7.5°	1359.1	1358.6	1358.1	1358.6	1357.1
10°	1349.8	1349.8	1349.3	1349.8	1348.8
12.5°	1338.5	1338.5	1338.5	1339.0	1338.5
15°	1324.2	1323.8	1323.8	1324.7	1323.8
17.5°	1307.6	1307.1	1307.1	1306.6	1305.6
20°	1287.0	1287.0	1286.5	1286.0	1284.5
22.5°	1264.9	1264.4	1262.9	1262.9	1261.0
25°	1238.9	1237.4	1236.5	1236.0	1234.5
27.5°	1210.5	1208.5	1207.0	1206.0	1204.6
30°	1178.6	1176.6	1175.1	1173.7	1172.7
32.5°	1144.2	1143.3	1140.8	1140.3	1138.4
35°	1107.5	1106.0	1104.5	1102.6	1100.6
37.5°	1068.2	1066.8	1063.3	1062.3	1060.9
40°	1026.5	1024.6	1020.2	1020.2	1018.7
42.5°	981.9	979.9	977.0	975.0	974.1
45°	935.3	933.3	929.9	928.0	927.0
47.5°	885.8	884.3	880.4	878.9	877.4
50°	834.3	832.3	827.9	826.9	825.4
52.5°	780.3	779.3	773.5	773.0	771.5
55°	726.9	721.5	716.6	716.6	715.6
57.5°	668.0	664.1	657.7	657.7	656.7
60°	607.2	603.8	596.4	597.4	596.4
62.5°	547.8	540.5	533.6	536.6	534.1
65°	480.2	476.2	468.9	470.8	470.4
67.5°	418.4	411.0	404.1	408.1	406.1
70°	349.7	345.8	338.9	342.8	337.9
72.5°	285.0	281.5	274.7	279.1	274.2
75°	222.2	218.7	213.4	217.3	212.4
77.5°	162.8	160.4	155.5	159.4	160.4
80°	108.9	105.9	103.5	106.9	107.9
82.5°	63.8	61.8	60.8	61.3	63.8
85°	30.9	28.4	28.4	28.9	28.9
87.5°	8.3	7.4	8.3	8.8	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)