

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: P974964

Luminaire Tested: FLR2-24-80HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974964
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: FLR2-24-80HE-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

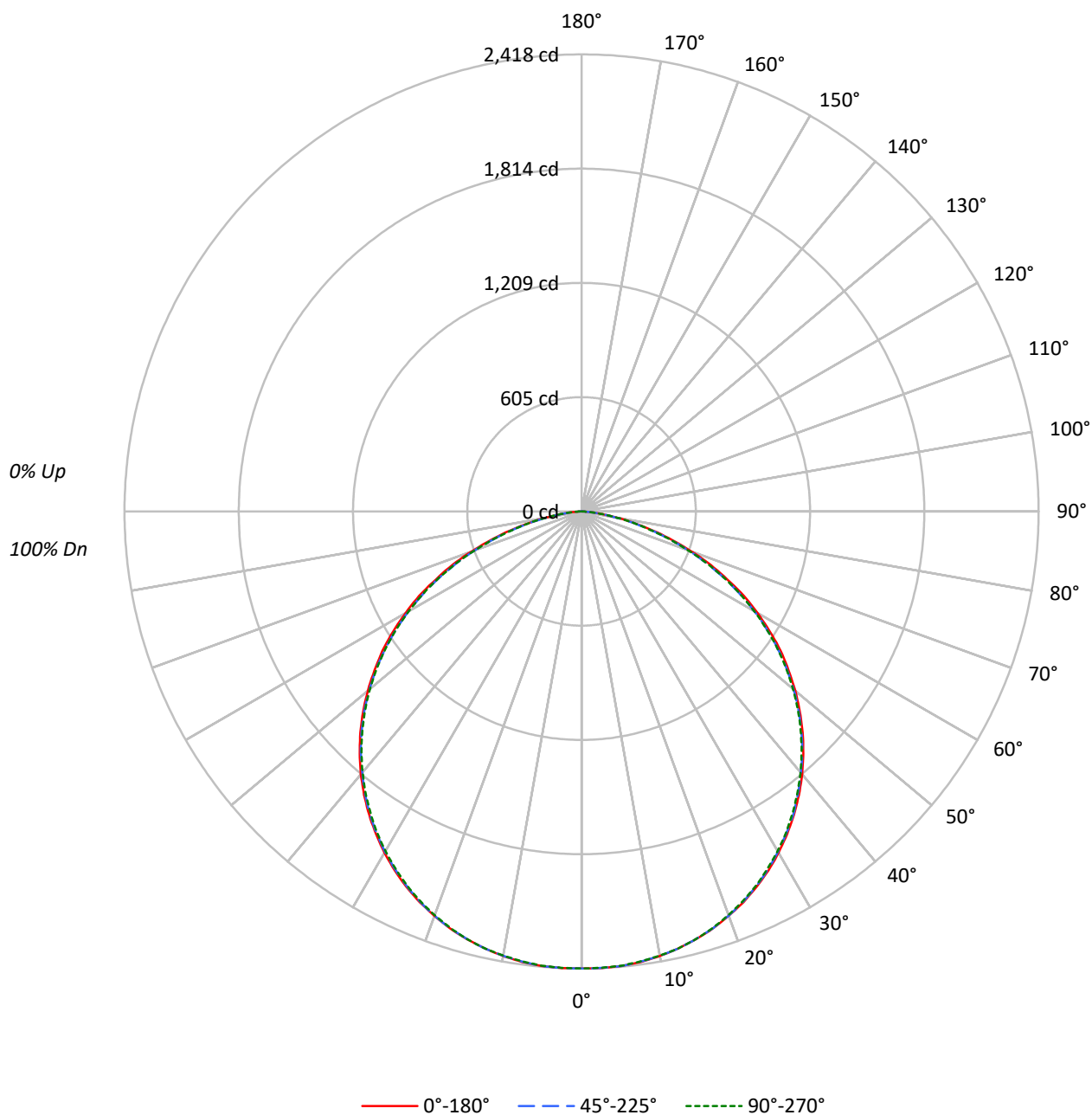
Lumens per Lamp: N/A
Luminaire Lumens: 6835.0 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3254	3254	3254
5°	3260	3260	3258
10°	3263	3261	3260
15°	3264	3262	3262
20°	3260	3259	3254
25°	3254	3248	3242
30°	3239	3230	3223
35°	3218	3210	3198
40°	3190	3170	3166
45°	3149	3131	3121
50°	3090	3066	3057
55°	3017	2974	2970
60°	2891	2840	2840
65°	2705	2641	2649
70°	2434	2359	2352
75°	2044	1962	1953
80°	1492	1419	1479
85°	844	777	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	3.4
10°-20°	661.3	9.7
20°-30°	1008.3	14.8
30°-40°	1221.6	17.9
40°-50°	1268.9	18.6
50°-60°	1135.1	16.6
60°-70°	827.3	12.1
70°-80°	409.7	6.0
80°-90°	73.2	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°	1899.1	27.8
0°-40°	3120.7	45.7
0°-60°	5524.7	80.8
0°-90°	6835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2414	2415	2414	2414	2412	230
15°	2343	2342	2342	2344	2342	661
25°	2192	2189	2188	2187	2184	1010
35°	1959	1957	1954	1951	1947	1225
45°	1655	1651	1645	1642	1640	1275
55°	1286	1276	1268	1268	1266	1146
65°	850	843	830	833	832	842
75°	393	387	378	384	376	419
85°	55	50	50	51	51	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2418.3	2418.3	2418.3	2418.3	2418.3
2.5°	2418.3	2417.5	2417.5	2418.3	2416.6
5°	2414.0	2414.9	2414.0	2414.0	2412.3
7.5°	2404.5	2403.6	2402.7	2403.6	2401.0
10°	2388.0	2388.0	2387.1	2388.0	2386.2
12.5°	2368.0	2368.0	2368.0	2368.9	2368.0
15°	2342.9	2342.0	2342.0	2343.7	2342.0
17.5°	2313.4	2312.5	2312.5	2311.6	2309.9
20°	2276.9	2276.9	2276.0	2275.2	2272.6
22.5°	2237.9	2237.0	2234.4	2234.4	2230.9
25°	2191.9	2189.3	2187.5	2186.7	2184.1
27.5°	2141.5	2138.1	2135.5	2133.7	2131.1
30°	2085.1	2081.7	2079.1	2076.5	2074.7
32.5°	2024.4	2022.7	2018.3	2017.5	2014.0
35°	1959.3	1956.7	1954.1	1950.6	1947.2
37.5°	1889.9	1887.3	1881.2	1879.5	1876.9
40°	1816.1	1812.7	1804.9	1804.9	1802.3
42.5°	1737.2	1733.7	1728.5	1725.0	1723.3
45°	1654.8	1651.3	1645.2	1641.7	1640.0
47.5°	1567.1	1564.5	1557.6	1555.0	1552.4
50°	1476.0	1472.5	1464.7	1463.0	1460.4
52.5°	1380.6	1378.8	1368.4	1367.5	1364.9
55°	1286.0	1276.4	1267.7	1267.7	1266.0
57.5°	1181.8	1174.9	1163.6	1163.6	1161.9
60°	1074.2	1068.2	1055.2	1056.9	1055.2
62.5°	969.2	956.2	944.1	949.3	945.0
65°	849.5	842.6	829.5	833.0	832.1
67.5°	740.2	727.2	715.0	721.9	718.5
70°	618.7	611.7	599.6	606.5	597.9
72.5°	504.1	498.1	485.9	493.7	485.1
75°	393.1	387.0	377.5	384.4	375.7
77.5°	288.1	283.7	275.1	282.0	283.7
80°	192.6	187.4	183.1	189.2	190.9
82.5°	112.8	109.3	107.6	108.5	112.8
85°	54.7	50.3	50.3	51.2	51.2
87.5°	14.8	13.0	14.8	15.6	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)