

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: P974886

Luminaire Tested: FLR2-24-72HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974886
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: FLR2-24-72HE-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

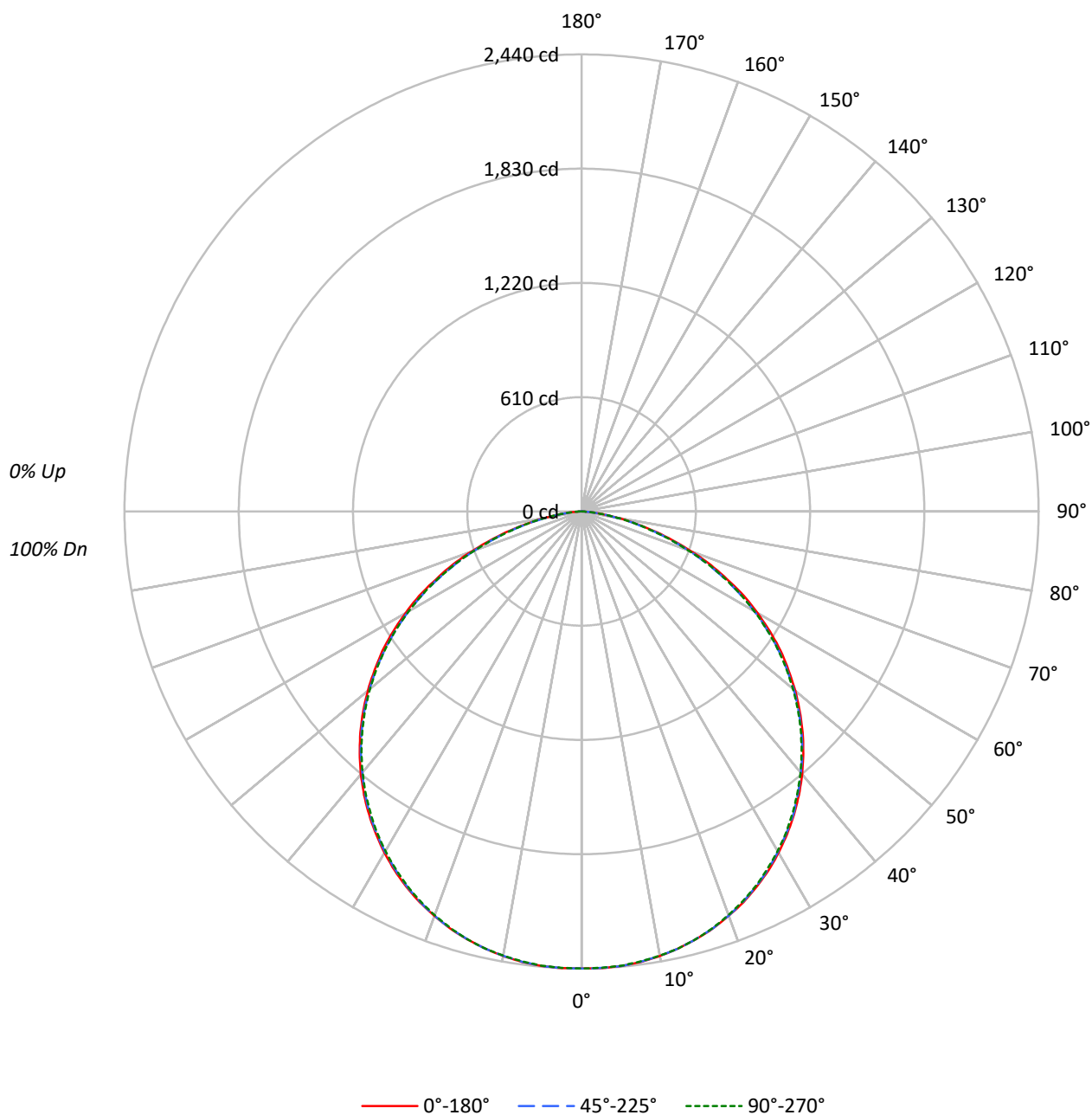
Lumens per Lamp: N/A
Luminaire Lumens: 6897.3 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3284	3284	3284
5°	3290	3290	3288
10°	3292	3291	3290
15°	3293	3292	3292
20°	3290	3289	3284
25°	3284	3277	3272
30°	3269	3260	3253
35°	3248	3239	3227
40°	3219	3199	3194
45°	3177	3159	3149
50°	3118	3094	3085
55°	3044	3001	2997
60°	2917	2865	2865
65°	2729	2665	2673
70°	2456	2380	2373
75°	2062	1980	1971
80°	1506	1432	1492
85°	852	784	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3177 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	3.4
10°-20°	667.3	9.7
20°-30°	1017.5	14.8
30°-40°	1232.7	17.9
40°-50°	1280.5	18.6
50°-60°	1145.5	16.6
60°-70°	834.8	12.1
70°-80°	413.4	6.0
80°-90°	73.9	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°	1916.4	27.8
0°-40°	3149.2	45.7
0°-60°	5575.1	80.8
0°-90°	6897.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6897.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	2436	2437	2436	2436	2434	232
15°	2364	2363	2363	2365	2363	668
25°	2212	2209	2208	2207	2204	1019
35°	1977	1975	1972	1968	1965	1237
45°	1670	1666	1660	1657	1655	1287
55°	1298	1288	1279	1279	1278	1156
65°	857	850	837	841	840	850
75°	397	390	381	388	379	423
85°	55	51	51	52	52	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2440.4	2440.4	2440.4	2440.4	2440.4
2.5°	2440.4	2439.5	2439.5	2440.4	2438.7
5°	2436.0	2436.9	2436.0	2436.0	2434.3
7.5°	2426.4	2425.5	2424.6	2425.5	2422.9
10°	2409.8	2409.8	2408.9	2409.8	2408.0
12.5°	2389.6	2389.6	2389.6	2390.5	2389.6
15°	2364.2	2363.3	2363.3	2365.1	2363.3
17.5°	2334.4	2333.6	2333.6	2332.7	2330.9
20°	2297.7	2297.7	2296.8	2295.9	2293.3
22.5°	2258.3	2257.4	2254.8	2254.8	2251.3
25°	2211.9	2209.2	2207.5	2206.6	2204.0
27.5°	2161.1	2157.6	2154.9	2153.2	2150.6
30°	2104.2	2100.7	2098.0	2095.4	2093.6
32.5°	2042.9	2041.1	2036.7	2035.9	2032.4
35°	1977.2	1974.6	1971.9	1968.4	1964.9
37.5°	1907.1	1904.5	1898.4	1896.6	1894.0
40°	1832.7	1829.2	1821.3	1821.3	1818.7
42.5°	1753.0	1749.5	1744.3	1740.8	1739.0
45°	1669.8	1666.3	1660.2	1656.7	1655.0
47.5°	1581.4	1578.8	1571.8	1569.1	1566.5
50°	1489.5	1486.0	1478.1	1476.3	1473.7
52.5°	1393.1	1391.4	1380.9	1380.0	1377.4
55°	1297.7	1288.1	1279.3	1279.3	1277.6
57.5°	1192.6	1185.6	1174.2	1174.2	1172.5
60°	1084.0	1077.9	1064.8	1066.5	1064.8
62.5°	978.1	965.0	952.7	957.9	953.6
65°	857.2	850.2	837.1	840.6	839.7
67.5°	746.9	733.8	721.5	728.5	725.0
70°	624.3	617.3	605.1	612.1	603.3
72.5°	508.7	502.6	490.4	498.2	489.5
75°	396.7	390.5	380.9	387.9	379.2
77.5°	290.7	286.3	277.6	284.6	286.3
80°	194.4	189.1	184.8	190.9	192.6
82.5°	113.8	110.3	108.6	109.5	113.8
85°	55.2	50.8	50.8	51.7	51.7
87.5°	14.9	13.1	14.9	15.8	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)