

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: P975040

Luminaire Tested: FLR2-24-72HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975040
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-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

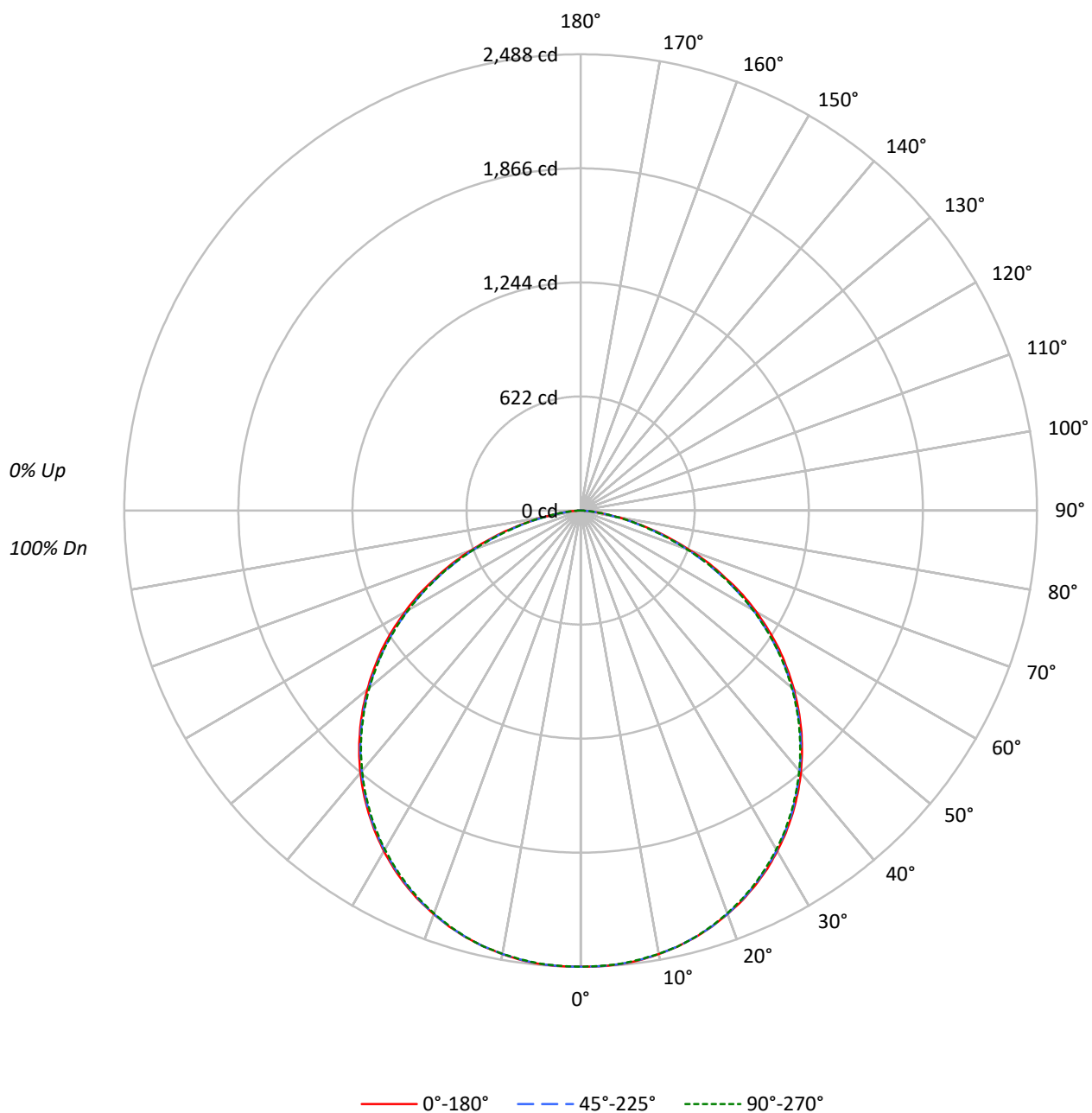
Lumens per Lamp: N/A
Luminaire Lumens: 7031.2 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P975040

CATALOG NUMBER: FLR2-24-72HE-L850-CA125

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°	3347	3347	3347
5°	3354	3354	3352
10°	3356	3355	3354
15°	3357	3356	3356
20°	3354	3353	3347
25°	3347	3341	3336
30°	3333	3323	3316
35°	3311	3302	3290
40°	3282	3261	3256
45°	3239	3220	3210
50°	3178	3154	3145
55°	3103	3059	3055
60°	2974	2921	2921
65°	2782	2717	2725
70°	2504	2426	2419
75°	2102	2019	2009
80°	1536	1459	1522
85°	868	800	814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3239 cd/sqm

TEST NUMBER: P975040

CATALOG NUMBER: FLR2-24-72HE-L850-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.1	3.4
10°-20°	680.3	9.7
20°-30°	1037.2	14.8
30°-40°	1256.7	17.9
40°-50°	1305.3	18.6
50°-60°	1167.7	16.6
60°-70°	851.1	12.1
70°-80°	421.5	6.0
80°-90°	75.4	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°	1953.6	27.8
0°-40°	3210.3	45.7
0°-60°	5683.4	80.8
0°-90°	7031.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7031.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2488	2488	2488	2488	2488	
5°	2483	2484	2483	2483	2482	236
15°	2410	2409	2409	2411	2409	680
25°	2255	2252	2250	2250	2247	1039
35°	2016	2013	2010	2007	2003	1261
45°	1702	1699	1692	1689	1687	1312
55°	1323	1313	1304	1304	1302	1179
65°	874	867	853	857	856	866
75°	404	398	388	395	386	431
85°	56	52	52	53	53	78
90°	0	0	0	0	0	

TEST NUMBER: P975040

CATALOG NUMBER: FLR2-24-72HE-L850-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2487.8	2487.8	2487.8	2487.8	2487.8
2.5°	2487.8	2486.9	2486.9	2487.8	2486.0
5°	2483.3	2484.2	2483.3	2483.3	2481.5
7.5°	2473.5	2472.6	2471.7	2472.6	2469.9
10°	2456.5	2456.5	2455.7	2456.5	2454.8
12.5°	2436.0	2436.0	2436.0	2436.9	2436.0
15°	2410.1	2409.2	2409.2	2411.0	2409.2
17.5°	2379.8	2378.9	2378.9	2378.0	2376.2
20°	2342.3	2342.3	2341.4	2340.5	2337.8
22.5°	2302.1	2301.2	2298.5	2298.5	2295.0
25°	2254.8	2252.1	2250.3	2249.5	2246.8
27.5°	2203.0	2199.5	2196.8	2195.0	2192.3
30°	2145.0	2141.4	2138.8	2136.1	2134.3
32.5°	2082.5	2080.7	2076.3	2075.4	2071.8
35°	2015.6	2012.9	2010.2	2006.7	2003.1
37.5°	1944.2	1941.5	1935.2	1933.5	1930.8
40°	1868.3	1864.7	1856.7	1856.7	1854.0
42.5°	1787.1	1783.5	1778.1	1774.6	1772.8
45°	1702.3	1698.7	1692.4	1688.9	1687.1
47.5°	1612.1	1609.4	1602.3	1599.6	1596.9
50°	1518.4	1514.8	1506.8	1505.0	1502.3
52.5°	1420.2	1418.4	1407.7	1406.8	1404.1
55°	1322.9	1313.1	1304.1	1304.1	1302.4
57.5°	1215.8	1208.6	1197.0	1197.0	1195.2
60°	1105.1	1098.8	1085.5	1087.2	1085.5
62.5°	997.1	983.7	971.2	976.5	972.1
65°	873.9	866.8	853.4	856.9	856.0
67.5°	761.4	748.0	735.5	742.7	739.1
70°	636.5	629.3	616.8	624.0	615.0
72.5°	518.6	512.4	499.9	507.9	499.0
75°	404.4	398.1	388.3	395.4	386.5
77.5°	296.4	291.9	283.0	290.1	291.9
80°	198.2	192.8	188.3	194.6	196.4
82.5°	116.0	112.5	110.7	111.6	116.0
85°	56.2	51.8	51.8	52.7	52.7
87.5°	15.2	13.4	15.2	16.1	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)