

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: P975008

Luminaire Tested: FLR2-24-80HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975008
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-L850-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

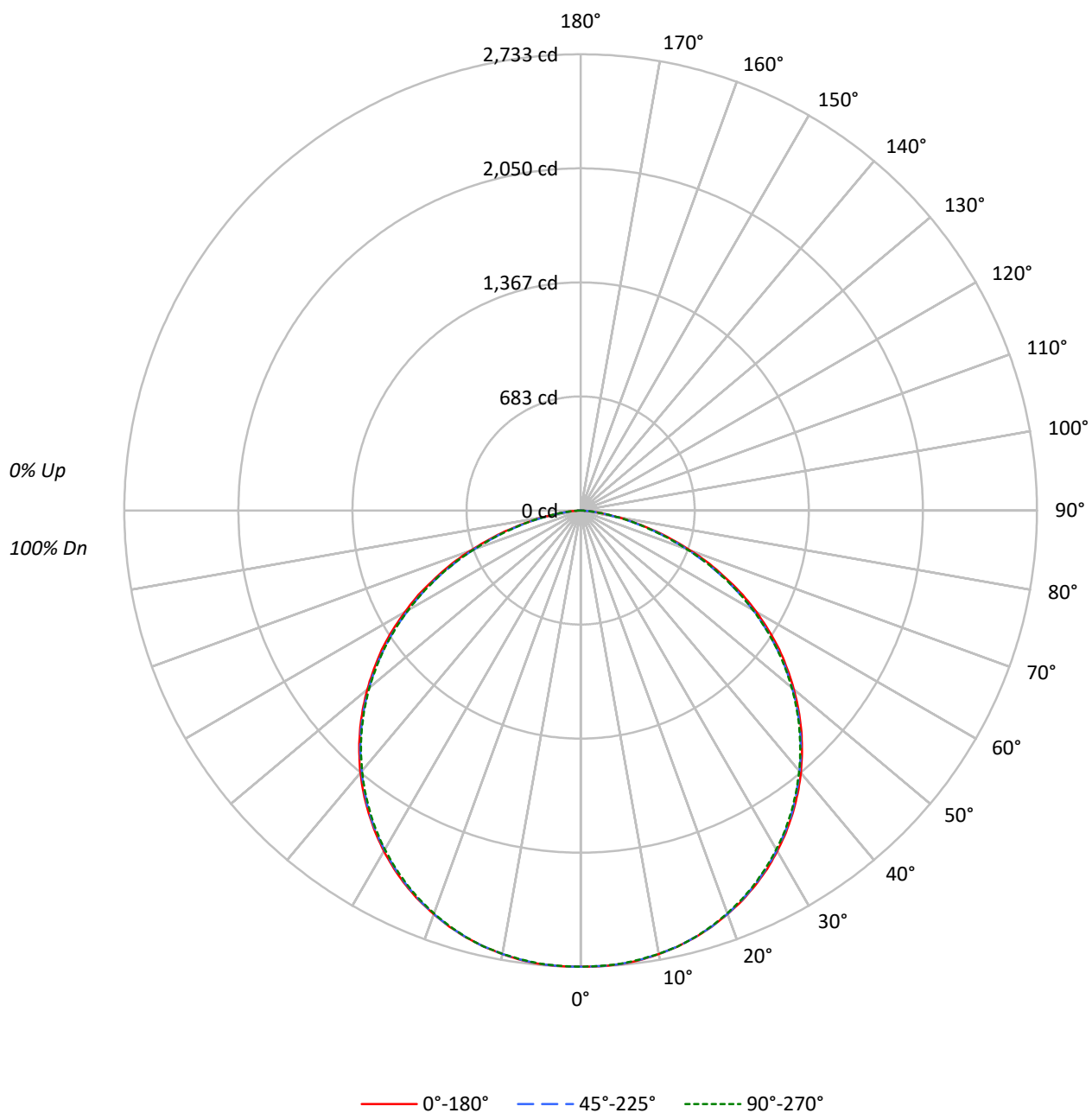
Lumens per Lamp: N/A
Luminaire Lumens: 7723.5 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P975008

CATALOG NUMBER: FLR2-24-80HE-L850-CP250

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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		70
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		63
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		56
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		47
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		43
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		39
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3677	3677	3677
5°	3684	3684	3682
10°	3687	3685	3684
15°	3688	3686	3686
20°	3684	3683	3677
25°	3677	3670	3664
30°	3661	3650	3642
35°	3637	3627	3614
40°	3605	3582	3577
45°	3558	3538	3526
50°	3491	3464	3454
55°	3409	3360	3356
60°	3267	3208	3208
65°	3056	2984	2994
70°	2750	2665	2658
75°	2309	2217	2207
80°	1687	1603	1671
85°	954	878	894

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3558 cd/sqm

TEST NUMBER: P975008

CATALOG NUMBER: FLR2-24-80HE-L850-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	3.4
10°-20°	747.3	9.7
20°-30°	1139.3	14.8
30°-40°	1380.4	17.9
40°-50°	1433.9	18.6
50°-60°	1282.7	16.6
60°-70°	934.8	12.1
70°-80°	463.0	6.0
80°-90°	82.8	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°	2146.0	27.8
0°-40°	3526.4	45.7
0°-60°	6242.9	80.8
0°-90°	7723.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7723.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2733	2733	2733	2733	2733	
5°	2728	2729	2728	2728	2726	259
15°	2647	2646	2646	2648	2646	747
25°	2477	2474	2472	2471	2468	1141
35°	2214	2211	2208	2204	2200	1385
45°	1870	1866	1859	1855	1853	1441
55°	1453	1442	1432	1432	1431	1295
65°	960	952	937	941	940	952
75°	444	437	426	434	425	474
85°	62	57	57	58	58	86
90°	0	0	0	0	0	

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CATALOG NUMBER: FLR2-24-80HE-L850-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2732.7	2732.7	2732.7	2732.7	2732.7
2.5°	2732.7	2731.7	2731.7	2732.7	2730.7
5°	2727.8	2728.8	2727.8	2727.8	2725.8
7.5°	2717.0	2716.0	2715.1	2716.0	2713.1
10°	2698.4	2698.4	2697.4	2698.4	2696.4
12.5°	2675.8	2675.8	2675.8	2676.8	2675.8
15°	2647.4	2646.4	2646.4	2648.4	2646.4
17.5°	2614.1	2613.1	2613.1	2612.1	2610.1
20°	2572.9	2572.9	2571.9	2570.9	2568.0
22.5°	2528.8	2527.8	2524.8	2524.8	2520.9
25°	2476.8	2473.9	2471.9	2470.9	2468.0
27.5°	2419.9	2416.0	2413.1	2411.1	2408.2
30°	2356.2	2352.3	2349.3	2346.4	2344.4
32.5°	2287.6	2285.6	2280.7	2279.7	2275.8
35°	2214.0	2211.1	2208.1	2204.2	2200.3
37.5°	2135.6	2132.6	2125.8	2123.8	2120.9
40°	2052.2	2048.3	2039.5	2039.5	2036.5
42.5°	1963.0	1959.1	1953.2	1949.3	1947.3
45°	1869.9	1865.9	1859.1	1855.1	1853.2
47.5°	1770.8	1767.9	1760.0	1757.1	1754.2
50°	1667.9	1663.9	1655.1	1653.2	1650.2
52.5°	1560.0	1558.0	1546.3	1545.3	1542.4
55°	1453.1	1442.3	1432.5	1432.5	1430.6
57.5°	1335.5	1327.6	1314.9	1314.9	1312.9
60°	1213.9	1207.0	1192.3	1194.3	1192.3
62.5°	1095.2	1080.5	1066.8	1072.7	1067.8
65°	959.9	952.1	937.4	941.3	940.3
67.5°	836.4	821.7	807.9	815.8	811.9
70°	699.1	691.3	677.5	685.4	675.6
72.5°	569.7	562.8	549.1	557.9	548.1
75°	444.2	437.3	426.5	434.4	424.6
77.5°	325.5	320.6	310.8	318.7	320.6
80°	217.7	211.8	206.9	213.8	215.7
82.5°	127.5	123.5	121.6	122.6	127.5
85°	61.8	56.9	56.9	57.9	57.9
87.5°	16.7	14.7	16.7	17.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)