

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: P974810

Luminaire Tested: FLR2-24-80HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974810
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

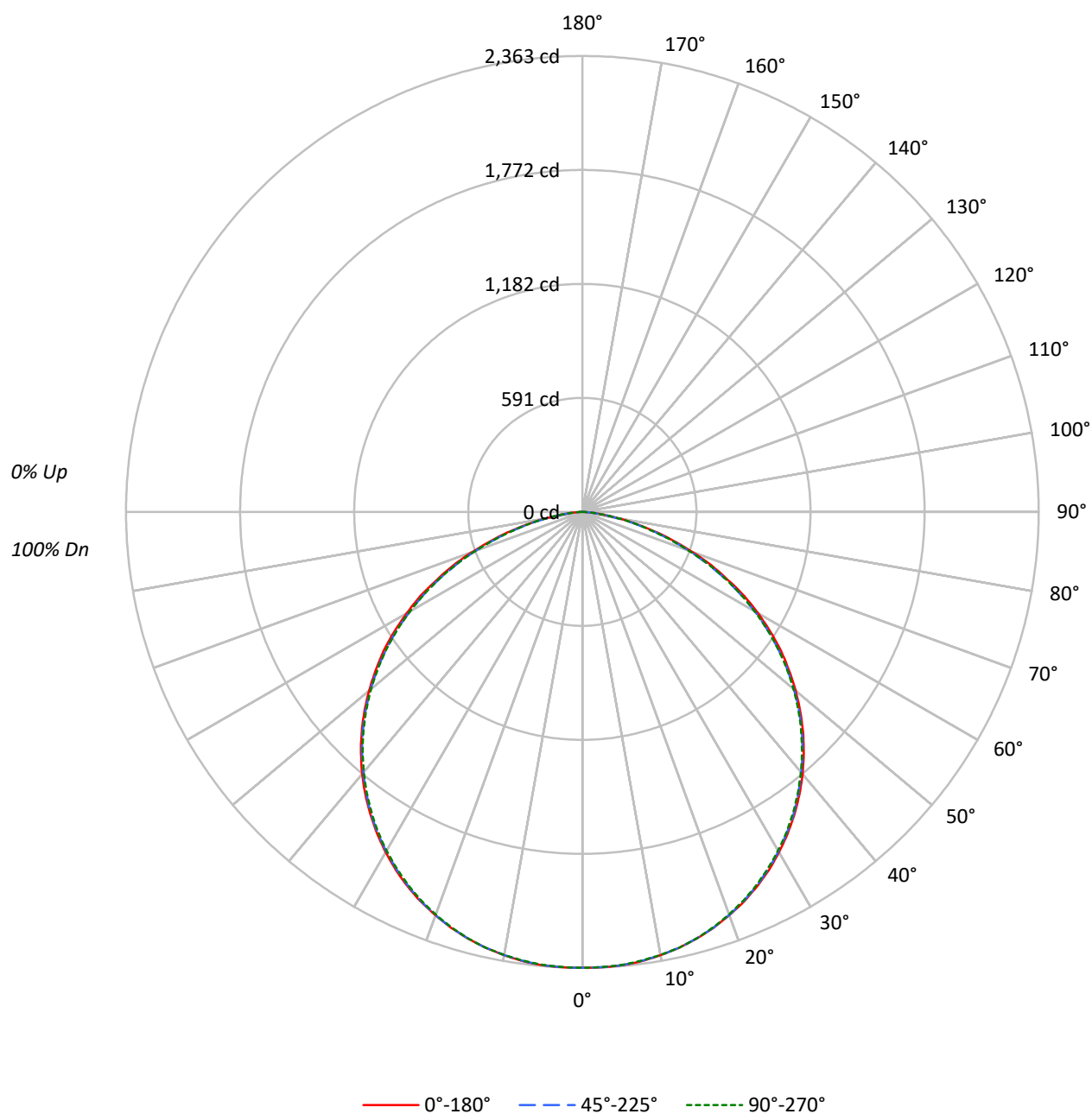
Lumens per Lamp: N/A
Luminaire Lumens: 6677.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P974810

CATALOG NUMBER: FLR2-24-80HE-L935-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°	3179	3179	3179
5°	3185	3185	3183
10°	3188	3186	3185
15°	3188	3187	3187
20°	3185	3184	3179
25°	3179	3173	3168
30°	3165	3156	3149
35°	3144	3136	3125
40°	3117	3097	3093
45°	3076	3059	3049
50°	3019	2995	2987
55°	2947	2905	2902
60°	2824	2774	2774
65°	2642	2580	2588
70°	2378	2305	2298
75°	1996	1917	1908
80°	1458	1386	1445
85°	824	760	772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3076 cd/sqm

TEST NUMBER: P974810

CATALOG NUMBER: FLR2-24-80HE-L935-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.3	3.4
10°-20°	646.1	9.7
20°-30°	985.1	14.8
30°-40°	1193.5	17.9
40°-50°	1239.7	18.6
50°-60°	1109.0	16.6
60°-70°	808.3	12.1
70°-80°	400.3	6.0
80°-90°	71.5	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°	1855.5	27.8
0°-40°	3049.0	45.7
0°-60°	5397.7	80.8
0°-90°	6677.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6677.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2363	2363	2363	2363	2363	
5°	2358	2359	2358	2358	2357	224
15°	2289	2288	2288	2290	2288	646
25°	2142	2139	2137	2136	2134	987
35°	1914	1912	1909	1906	1902	1197
45°	1617	1613	1607	1604	1602	1246
55°	1256	1247	1239	1239	1237	1119
65°	830	823	810	814	813	823
75°	384	378	369	376	367	409
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

TEST NUMBER: P974810

CATALOG NUMBER: FLR2-24-80HE-L935-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2362.8	2361.9	2361.9	2362.8	2361.1
5°	2358.5	2359.4	2358.5	2358.5	2356.8
7.5°	2349.2	2348.3	2347.5	2348.3	2345.8
10°	2333.1	2333.1	2332.2	2333.1	2331.4
12.5°	2313.6	2313.6	2313.6	2314.4	2313.6
15°	2289.0	2288.2	2288.2	2289.8	2288.2
17.5°	2260.2	2259.3	2259.3	2258.5	2256.8
20°	2224.6	2224.6	2223.7	2222.9	2220.3
22.5°	2186.4	2185.6	2183.0	2183.0	2179.6
25°	2141.5	2138.9	2137.2	2136.4	2133.9
27.5°	2092.3	2088.9	2086.4	2084.7	2082.1
30°	2037.2	2033.8	2031.3	2028.7	2027.0
32.5°	1977.9	1976.2	1971.9	1971.1	1967.7
35°	1914.3	1911.7	1909.2	1905.8	1902.4
37.5°	1846.5	1843.9	1838.0	1836.3	1833.7
40°	1774.4	1771.0	1763.4	1763.4	1760.8
42.5°	1697.3	1693.9	1688.8	1685.4	1683.7
45°	1616.7	1613.3	1607.4	1604.0	1602.3
47.5°	1531.1	1528.5	1521.8	1519.2	1516.7
50°	1442.1	1438.7	1431.0	1429.4	1426.8
52.5°	1348.8	1347.1	1336.9	1336.1	1333.6
55°	1256.4	1247.1	1238.6	1238.6	1236.9
57.5°	1154.7	1147.9	1136.9	1136.9	1135.2
60°	1049.5	1043.6	1030.9	1032.6	1030.9
62.5°	947.0	934.3	922.4	927.5	923.2
65°	830.0	823.2	810.5	813.9	813.0
67.5°	723.2	710.4	698.6	705.4	702.0
70°	604.5	597.7	585.8	592.6	584.1
72.5°	492.6	486.6	474.8	482.4	473.9
75°	384.0	378.1	368.8	375.6	367.1
77.5°	281.5	277.2	268.7	275.5	277.2
80°	188.2	183.1	178.9	184.8	186.5
82.5°	110.2	106.8	105.1	106.0	110.2
85°	53.4	49.2	49.2	50.0	50.0
87.5°	14.4	12.7	14.4	15.3	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)