

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: P974789

Luminaire Tested: FLR2-24-90HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974789
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: FLR2-24-90HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

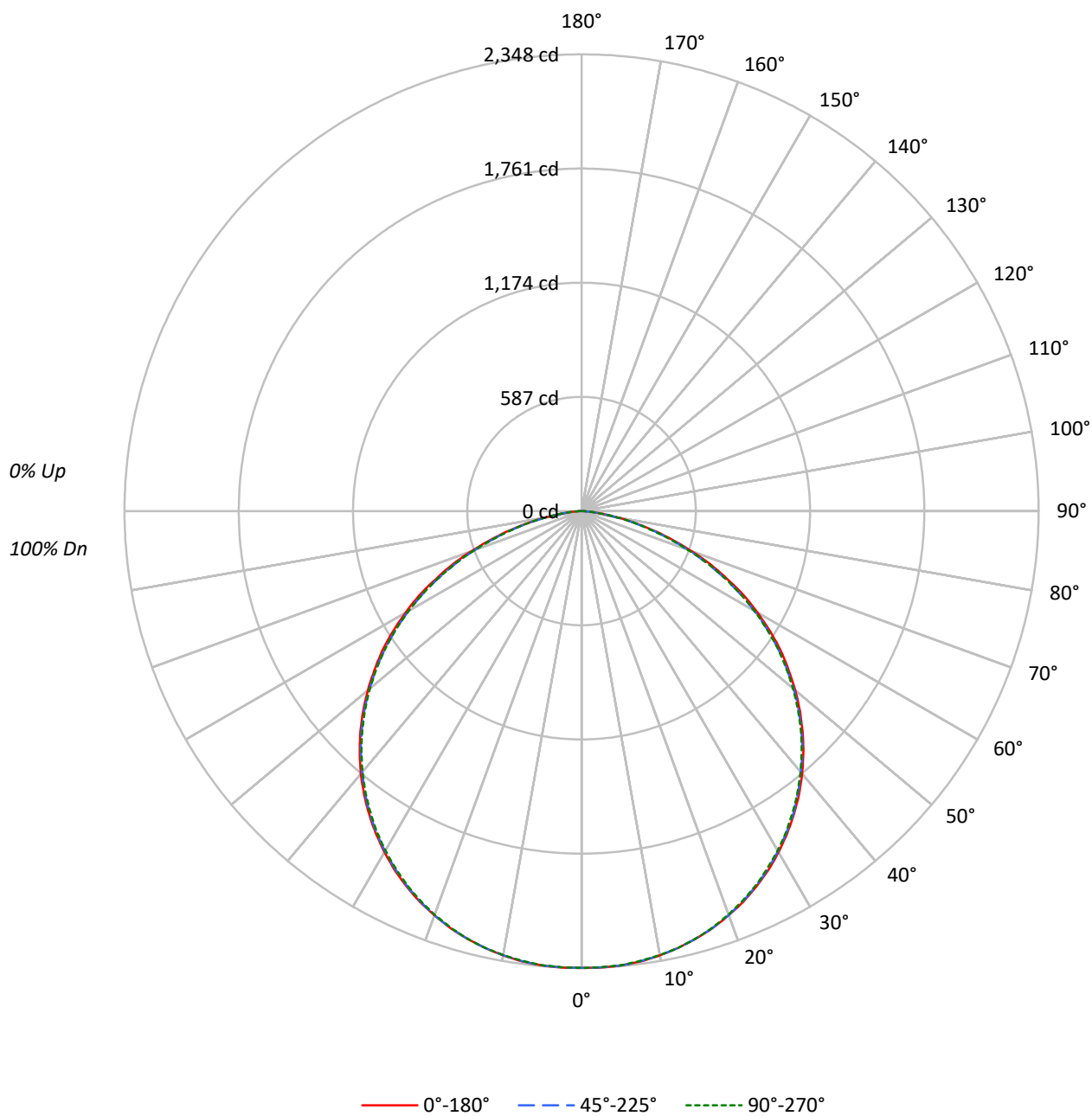
Lumens per Lamp: N/A
Luminaire Lumens: 6637.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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: P974789

CATALOG NUMBER: FLR2-24-90HE-L935-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974789

CATALOG NUMBER: FLR2-24-90HE-L935-CP375

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°	3160	3160	3160
5°	3166	3166	3164
10°	3168	3167	3166
15°	3169	3168	3168
20°	3166	3165	3160
25°	3160	3154	3149
30°	3146	3137	3130
35°	3125	3117	3106
40°	3098	3079	3074
45°	3058	3040	3031
50°	3000	2977	2969
55°	2929	2888	2884
60°	2807	2757	2757
65°	2627	2565	2573
70°	2364	2291	2284
75°	1984	1906	1897
80°	1450	1378	1437
85°	820	755	767

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3058 cd/sqm

TEST NUMBER: P974789

CATALOG NUMBER: FLR2-24-90HE-L935-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	3.4
10°-20°	642.2	9.7
20°-30°	979.2	14.8
30°-40°	1186.3	17.9
40°-50°	1232.3	18.6
50°-60°	1102.4	16.6
60°-70°	803.4	12.1
70°-80°	397.9	6.0
80°-90°	71.1	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°	1844.3	27.8
0°-40°	3030.6	45.7
0°-60°	5365.2	80.8
0°-90°	6637.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6637.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2348	2348	2348	2348	2348	
5°	2344	2345	2344	2344	2343	223
15°	2275	2274	2274	2276	2274	642
25°	2129	2126	2124	2124	2121	981
35°	1903	1900	1898	1894	1891	1190
45°	1607	1604	1598	1594	1593	1238
55°	1249	1240	1231	1231	1230	1113
65°	825	818	806	809	808	818
75°	382	376	367	373	365	407
85°	53	49	49	50	50	74
90°	0	0	0	0	0	

TEST NUMBER: P974789

CATALOG NUMBER: FLR2-24-90HE-L935-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2348.5	2347.7	2347.7	2348.5	2346.9
5°	2344.3	2345.2	2344.3	2344.3	2342.6
7.5°	2335.1	2334.2	2333.4	2334.2	2331.7
10°	2319.0	2319.0	2318.2	2319.0	2317.4
12.5°	2299.7	2299.7	2299.7	2300.5	2299.7
15°	2275.2	2274.4	2274.4	2276.1	2274.4
17.5°	2246.6	2245.7	2245.7	2244.9	2243.2
20°	2211.2	2211.2	2210.3	2209.5	2207.0
22.5°	2173.3	2172.4	2169.9	2169.9	2166.5
25°	2128.6	2126.1	2124.4	2123.5	2121.0
27.5°	2079.7	2076.4	2073.8	2072.1	2069.6
30°	2024.9	2021.6	2019.1	2016.5	2014.8
32.5°	1966.0	1964.3	1960.1	1959.2	1955.9
35°	1902.8	1900.2	1897.7	1894.3	1891.0
37.5°	1835.3	1832.8	1826.9	1825.2	1822.7
40°	1763.7	1760.3	1752.8	1752.8	1750.2
42.5°	1687.0	1683.7	1678.6	1675.2	1673.6
45°	1607.0	1603.6	1597.7	1594.3	1592.7
47.5°	1521.9	1519.3	1512.6	1510.1	1507.5
50°	1433.4	1430.0	1422.4	1420.8	1418.2
52.5°	1340.7	1339.0	1328.9	1328.1	1325.5
55°	1248.8	1239.6	1231.1	1231.1	1229.5
57.5°	1147.7	1141.0	1130.0	1130.0	1128.3
60°	1043.2	1037.3	1024.7	1026.4	1024.7
62.5°	941.3	928.6	916.8	921.9	917.7
65°	825.0	818.2	805.6	809.0	808.1
67.5°	718.8	706.2	694.4	701.1	697.7
70°	600.8	594.1	582.3	589.0	580.6
72.5°	489.6	483.7	471.9	479.5	471.1
75°	381.7	375.8	366.6	373.3	364.9
77.5°	279.8	275.6	267.1	273.9	275.6
80°	187.1	182.0	177.8	183.7	185.4
82.5°	109.5	106.2	104.5	105.3	109.5
85°	53.1	48.9	48.9	49.7	49.7
87.5°	14.3	12.6	14.3	15.2	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)