

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: P974590

Luminaire Tested: FLR2-24-80HE-L930-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974590
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-L930-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

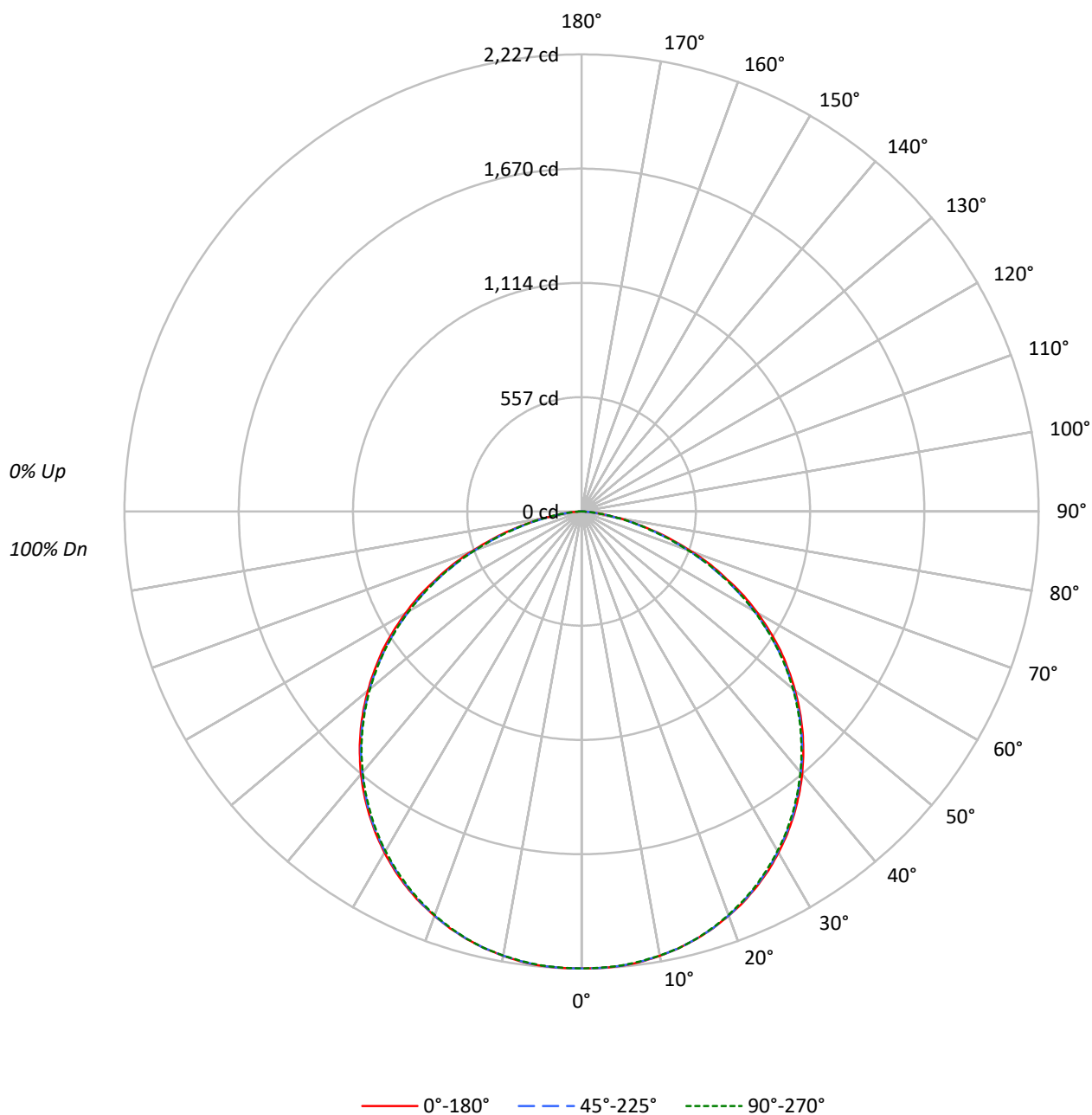
Lumens per Lamp: N/A
Luminaire Lumens: 6293.6 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P974590

CATALOG NUMBER: FLR2-24-80HE-L930-CP080

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°	2996	2996	2996
5°	3002	3002	3000
10°	3004	3003	3002
15°	3005	3004	3004
20°	3002	3001	2996
25°	2996	2990	2986
30°	2983	2974	2968
35°	2963	2955	2945
40°	2937	2919	2915
45°	2899	2883	2873
50°	2845	2823	2815
55°	2778	2738	2734
60°	2662	2615	2615
65°	2490	2432	2439
70°	2241	2172	2166
75°	1881	1807	1799
80°	1375	1306	1362
85°	777	715	727

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2899 cd/sqm

TEST NUMBER: P974590

CATALOG NUMBER: FLR2-24-80HE-L930-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.4	3.4
10°-20°	608.9	9.7
20°-30°	928.4	14.8
30°-40°	1124.8	17.9
40°-50°	1168.4	18.6
50°-60°	1045.2	16.6
60°-70°	761.8	12.1
70°-80°	377.3	6.0
80°-90°	67.4	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°	1748.7	27.8
0°-40°	2873.5	45.7
0°-60°	5087.1	80.8
0°-90°	6293.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6293.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2227	2227	2227	2227	2227	
5°	2223	2224	2223	2223	2221	211
15°	2157	2156	2156	2158	2156	609
25°	2018	2016	2014	2013	2011	930
35°	1804	1802	1799	1796	1793	1128
45°	1524	1520	1515	1512	1510	1174
55°	1184	1175	1167	1167	1166	1055
65°	782	776	764	767	766	775
75°	362	356	348	354	346	386
85°	50	46	46	47	47	70
90°	0	0	0	0	0	

TEST NUMBER: P974590

CATALOG NUMBER: FLR2-24-80HE-L930-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.8	2226.8	2226.8	2226.8	2226.8
2.5°	2226.8	2226.0	2226.0	2226.8	2225.2
5°	2222.8	2223.6	2222.8	2222.8	2221.2
7.5°	2214.0	2213.2	2212.4	2213.2	2210.8
10°	2198.8	2198.8	2198.0	2198.8	2197.2
12.5°	2180.4	2180.4	2180.4	2181.2	2180.4
15°	2157.3	2156.5	2156.5	2158.1	2156.5
17.5°	2130.1	2129.3	2129.3	2128.5	2126.9
20°	2096.5	2096.5	2095.7	2094.9	2092.5
22.5°	2060.6	2059.8	2057.4	2057.4	2054.2
25°	2018.2	2015.8	2014.2	2013.4	2011.1
27.5°	1971.9	1968.7	1966.3	1964.7	1962.3
30°	1920.0	1916.8	1914.4	1912.0	1910.4
32.5°	1864.0	1862.4	1858.4	1857.6	1854.5
35°	1804.1	1801.7	1799.3	1796.1	1792.9
37.5°	1740.2	1737.8	1732.2	1730.6	1728.2
40°	1672.3	1669.1	1661.9	1661.9	1659.5
42.5°	1599.6	1596.4	1591.6	1588.4	1586.8
45°	1523.7	1520.5	1514.9	1511.7	1510.1
47.5°	1443.0	1440.6	1434.2	1431.8	1429.4
50°	1359.1	1355.9	1348.7	1347.1	1344.7
52.5°	1271.2	1269.6	1260.0	1259.2	1256.8
55°	1184.1	1175.3	1167.3	1167.3	1165.7
57.5°	1088.2	1081.8	1071.4	1071.4	1069.8
60°	989.1	983.6	971.6	973.2	971.6
62.5°	892.5	880.5	869.3	874.1	870.1
65°	782.2	775.8	763.8	767.0	766.2
67.5°	681.5	669.6	658.4	664.8	661.6
70°	569.7	563.3	552.1	558.5	550.5
72.5°	464.2	458.6	447.4	454.6	446.6
75°	361.9	356.3	347.6	354.0	346.0
77.5°	265.3	261.3	253.3	259.7	261.3
80°	177.4	172.6	168.6	174.2	175.8
82.5°	103.9	100.7	99.1	99.9	103.9
85°	50.3	46.3	46.3	47.1	47.1
87.5°	13.6	12.0	13.6	14.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)