

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: P974612

Luminaire Tested: FLR2-24-80HE-L930-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974612
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

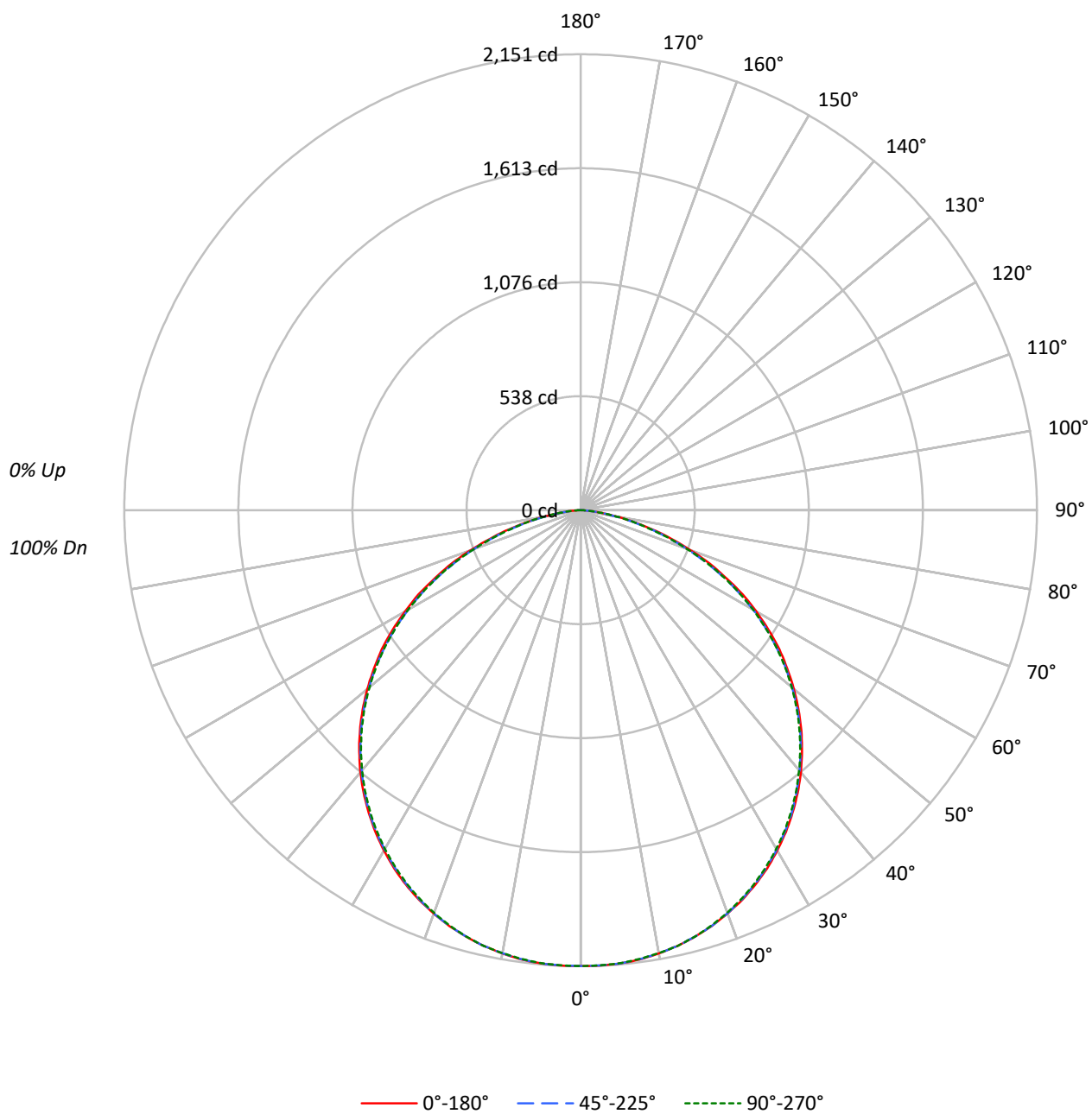
Lumens per Lamp: N/A
Luminaire Lumens: 6078.3 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	2894	2894	2894
5°	2900	2900	2897
10°	2901	2900	2899
15°	2902	2901	2901
20°	2899	2898	2894
25°	2894	2888	2884
30°	2881	2873	2866
35°	2862	2854	2844
40°	2837	2819	2815
45°	2800	2784	2775
50°	2748	2727	2718
55°	2683	2645	2641
60°	2571	2525	2525
65°	2405	2349	2356
70°	2164	2098	2092
75°	1817	1745	1737
80°	1327	1261	1316
85°	750	692	702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.1	3.4
10°-20°	588.1	9.7
20°-30°	896.6	14.8
30°-40°	1086.4	17.9
40°-50°	1128.4	18.6
50°-60°	1009.5	16.6
60°-70°	735.7	12.1
70°-80°	364.3	6.0
80°-90°	65.1	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°	1688.9	27.8
0°-40°	2775.2	45.7
0°-60°	4913.1	80.8
0°-90°	6078.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6078.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2151	2151	2151	2151	2151	
5°	2147	2148	2147	2147	2145	204
15°	2084	2083	2083	2084	2083	588
25°	1949	1947	1945	1945	1942	898
35°	1742	1740	1738	1735	1732	1090
45°	1472	1468	1463	1460	1458	1134
55°	1144	1135	1127	1127	1126	1019
65°	756	749	738	741	740	749
75°	350	344	336	342	334	373
85°	49	45	45	46	46	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2150.6	2150.6	2150.6	2150.6	2150.6
2.5°	2150.6	2149.8	2149.8	2150.6	2149.1
5°	2146.8	2147.5	2146.8	2146.8	2145.2
7.5°	2138.3	2137.5	2136.7	2137.5	2135.2
10°	2123.6	2123.6	2122.8	2123.6	2122.1
12.5°	2105.9	2105.9	2105.9	2106.6	2105.9
15°	2083.5	2082.7	2082.7	2084.3	2082.7
17.5°	2057.2	2056.5	2056.5	2055.7	2054.2
20°	2024.8	2024.8	2024.1	2023.3	2021.0
22.5°	1990.1	1989.3	1987.0	1987.0	1983.9
25°	1949.2	1946.9	1945.4	1944.6	1942.3
27.5°	1904.5	1901.4	1899.1	1897.5	1895.2
30°	1854.3	1851.2	1848.9	1846.6	1845.0
32.5°	1800.3	1798.7	1794.9	1794.1	1791.0
35°	1742.4	1740.1	1737.8	1734.7	1731.6
37.5°	1680.7	1678.4	1673.0	1671.4	1669.1
40°	1615.1	1612.0	1605.1	1605.1	1602.7
42.5°	1544.9	1541.8	1537.1	1534.1	1532.5
45°	1471.6	1468.5	1463.1	1460.0	1458.4
47.5°	1393.6	1391.3	1385.1	1382.8	1380.5
50°	1312.6	1309.5	1302.6	1301.0	1298.7
52.5°	1227.7	1226.2	1216.9	1216.1	1213.8
55°	1143.6	1135.1	1127.4	1127.4	1125.9
57.5°	1051.0	1044.8	1034.8	1034.8	1033.3
60°	955.3	949.9	938.3	939.9	938.3
62.5°	861.9	850.4	839.6	844.2	840.3
65°	755.5	749.3	737.7	740.8	740.0
67.5°	658.2	646.7	635.8	642.0	638.9
70°	550.2	544.0	533.2	539.4	531.7
72.5°	448.3	442.9	432.1	439.1	431.4
75°	349.6	344.2	335.7	341.8	334.1
77.5°	256.2	252.3	244.6	250.8	252.3
80°	171.3	166.7	162.8	168.2	169.8
82.5°	100.3	97.2	95.7	96.5	100.3
85°	48.6	44.8	44.8	45.5	45.5
87.5°	13.1	11.6	13.1	13.9	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)