

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: P974095

Luminaire Tested: FLR2-24-65-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974095
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: FLR2-24-65-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L830-CP375
Ballast/Driver: -

Summary

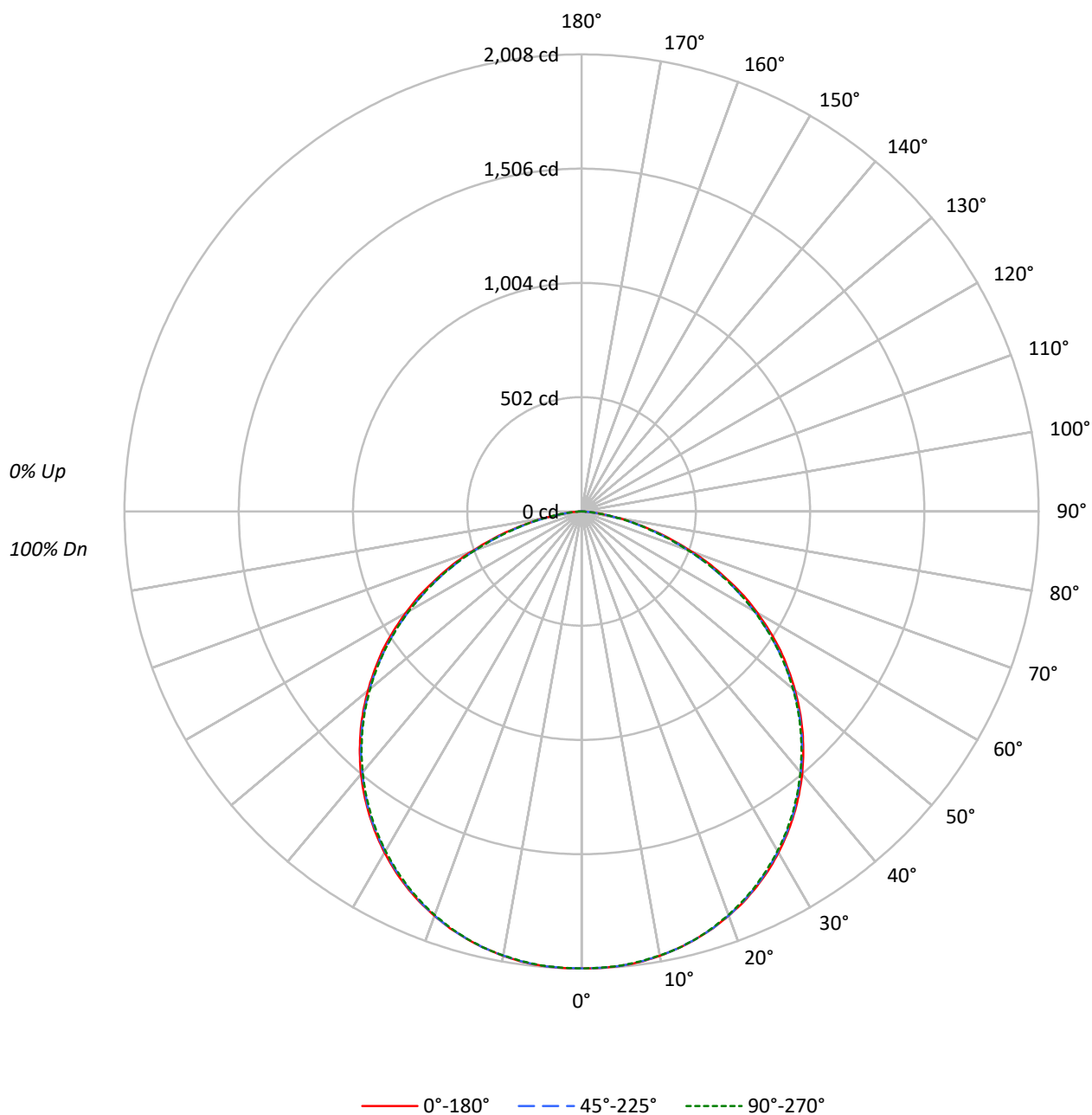
Lumens per Lamp: N/A
Luminaire Lumens: 5674.1 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.4
Input Voltage (V): 120
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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2701	2701	2701
5°	2707	2707	2705
10°	2708	2707	2707
15°	2709	2708	2708
20°	2706	2705	2701
25°	2701	2696	2692
30°	2689	2682	2676
35°	2672	2665	2655
40°	2648	2632	2628
45°	2614	2599	2591
50°	2565	2545	2538
55°	2504	2469	2465
60°	2400	2357	2357
65°	2245	2193	2199
70°	2020	1958	1952
75°	1696	1629	1621
80°	1239	1178	1228
85°	701	645	656

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	3.4
10°-20°	549.0	9.7
20°-30°	837.0	14.8
30°-40°	1014.1	17.9
40°-50°	1053.4	18.6
50°-60°	942.3	16.6
60°-70°	686.8	12.1
70°-80°	340.1	6.0
80°-90°	60.8	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°	1576.6	27.8
0°-40°	2590.7	45.7
0°-60°	4586.4	80.8
0°-90°	5674.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5674.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2004	2005	2004	2004	2003	191
15°	1945	1944	1944	1946	1944	549
25°	1820	1817	1816	1815	1813	839
35°	1626	1624	1622	1619	1616	1017
45°	1374	1371	1366	1363	1362	1059
55°	1068	1060	1052	1052	1051	951
65°	705	700	689	692	691	699
75°	326	321	313	319	312	348
85°	45	42	42	42	42	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2007.6	2007.6	2007.6	2007.6	2007.6
2.5°	2007.6	2006.9	2006.9	2007.6	2006.2
5°	2004.0	2004.7	2004.0	2004.0	2002.6
7.5°	1996.1	1995.4	1994.6	1995.4	1993.2
10°	1982.4	1982.4	1981.7	1982.4	1981.0
12.5°	1965.8	1965.8	1965.8	1966.5	1965.8
15°	1944.9	1944.2	1944.2	1945.7	1944.2
17.5°	1920.4	1919.7	1919.7	1919.0	1917.6
20°	1890.2	1890.2	1889.5	1888.8	1886.6
22.5°	1857.8	1857.1	1854.9	1854.9	1852.0
25°	1819.6	1817.4	1816.0	1815.3	1813.1
27.5°	1777.8	1774.9	1772.8	1771.3	1769.2
30°	1731.0	1728.1	1726.0	1723.8	1722.4
32.5°	1680.6	1679.1	1675.5	1674.8	1671.9
35°	1626.5	1624.4	1622.2	1619.3	1616.5
37.5°	1568.9	1566.8	1561.7	1560.3	1558.1
40°	1507.7	1504.8	1498.3	1498.3	1496.2
42.5°	1442.1	1439.3	1434.9	1432.1	1430.6
45°	1373.7	1370.8	1365.8	1362.9	1361.5
47.5°	1300.9	1298.8	1293.0	1290.9	1288.7
50°	1225.3	1222.4	1215.9	1214.5	1212.3
52.5°	1146.1	1144.6	1136.0	1135.3	1133.1
55°	1067.6	1059.6	1052.4	1052.4	1051.0
57.5°	981.1	975.4	966.0	966.0	964.5
60°	891.8	886.7	875.9	877.4	875.9
62.5°	804.6	793.8	783.7	788.1	784.5
65°	705.2	699.5	688.7	691.5	690.8
67.5°	614.5	603.7	593.6	599.3	596.4
70°	513.6	507.8	497.8	503.5	496.3
72.5°	418.5	413.5	403.4	409.9	402.7
75°	326.3	321.3	313.4	319.1	311.9
77.5°	239.2	235.6	228.4	234.1	235.6
80°	159.9	155.6	152.0	157.0	158.5
82.5°	93.6	90.8	89.3	90.0	93.6
85°	45.4	41.8	41.8	42.5	42.5
87.5°	12.2	10.8	12.2	13.0	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)