

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: P974247

Luminaire Tested: FLR2-24-65-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974247
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-L935-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-65-L935-CP187
Ballast/Driver: -

Summary

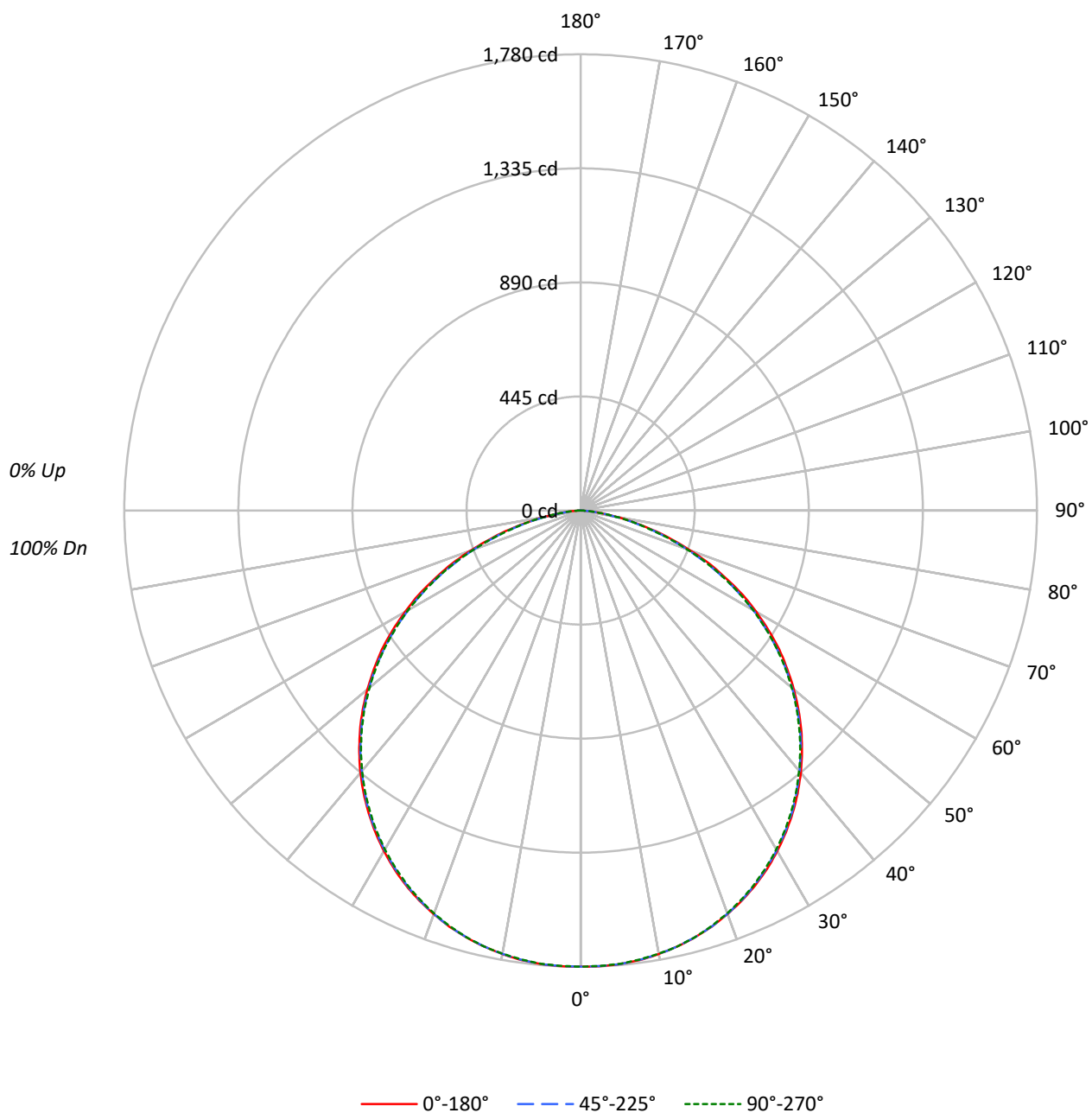
Lumens per Lamp: N/A
Luminaire Lumens: 5029.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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					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°	2394	2394	2394
5°	2399	2399	2398
10°	2401	2400	2399
15°	2401	2401	2401
20°	2399	2398	2394
25°	2394	2390	2386
30°	2384	2377	2372
35°	2368	2362	2353
40°	2347	2333	2329
45°	2317	2304	2296
50°	2273	2256	2249
55°	2220	2188	2185
60°	2127	2089	2089
65°	1990	1943	1949
70°	1791	1736	1731
75°	1504	1444	1437
80°	1099	1044	1089
85°	621	571	582

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	3.4
10°-20°	486.6	9.7
20°-30°	741.9	14.8
30°-40°	898.9	17.9
40°-50°	933.7	18.6
50°-60°	835.3	16.6
60°-70°	608.8	12.1
70°-80°	301.5	6.0
80°-90°	53.9	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°	1397.5	27.8
0°-40°	2296.4	45.7
0°-60°	4065.4	80.8
0°-90°	5029.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5029.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1780	1780	1780	1780	1780	
5°	1776	1777	1776	1776	1775	169
15°	1724	1723	1723	1725	1723	487
25°	1613	1611	1610	1609	1607	743
35°	1442	1440	1438	1435	1433	902
45°	1218	1215	1211	1208	1207	938
55°	946	939	933	933	932	843
65°	625	620	610	613	612	620
75°	289	285	278	283	276	308
85°	40	37	37	38	38	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.6	1779.6	1779.6	1779.6	1779.6
2.5°	1779.6	1778.9	1778.9	1779.6	1778.3
5°	1776.4	1777.0	1776.4	1776.4	1775.1
7.5°	1769.3	1768.7	1768.1	1768.7	1766.8
10°	1757.2	1757.2	1756.6	1757.2	1755.9
12.5°	1742.5	1742.5	1742.5	1743.2	1742.5
15°	1724.0	1723.4	1723.4	1724.6	1723.4
17.5°	1702.3	1701.7	1701.7	1701.0	1699.7
20°	1675.5	1675.5	1674.8	1674.2	1672.3
22.5°	1646.7	1646.1	1644.2	1644.2	1641.6
25°	1612.9	1611.0	1609.7	1609.1	1607.2
27.5°	1575.9	1573.3	1571.4	1570.1	1568.2
30°	1534.4	1531.8	1529.9	1528.0	1526.7
32.5°	1489.7	1488.4	1485.2	1484.6	1482.0
35°	1441.8	1439.9	1438.0	1435.4	1432.8
37.5°	1390.7	1388.8	1384.3	1383.0	1381.1
40°	1336.4	1333.9	1328.1	1328.1	1326.2
42.5°	1278.3	1275.8	1271.9	1269.4	1268.1
45°	1217.7	1215.1	1210.6	1208.1	1206.8
47.5°	1153.2	1151.3	1146.1	1144.2	1142.3
50°	1086.1	1083.6	1077.8	1076.5	1074.6
52.5°	1015.9	1014.6	1006.9	1006.3	1004.4
55°	946.3	939.3	932.9	932.9	931.6
57.5°	869.7	864.6	856.3	856.3	855.0
60°	790.5	786.0	776.4	777.7	776.4
62.5°	713.2	703.7	694.7	698.5	695.4
65°	625.1	620.0	610.4	613.0	612.3
67.5°	544.7	535.1	526.1	531.3	528.7
70°	455.3	450.2	441.2	446.3	439.9
72.5°	371.0	366.5	357.6	363.3	356.9
75°	289.3	284.8	277.8	282.9	276.5
77.5°	212.0	208.8	202.4	207.5	208.8
80°	141.8	137.9	134.7	139.2	140.5
82.5°	83.0	80.5	79.2	79.8	83.0
85°	40.2	37.0	37.0	37.7	37.7
87.5°	10.9	9.6	10.9	11.5	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)