

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: P974094

Luminaire Tested: FLR2-24-55-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974094
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: FLR2-24-55-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L830-CP375
Ballast/Driver: -

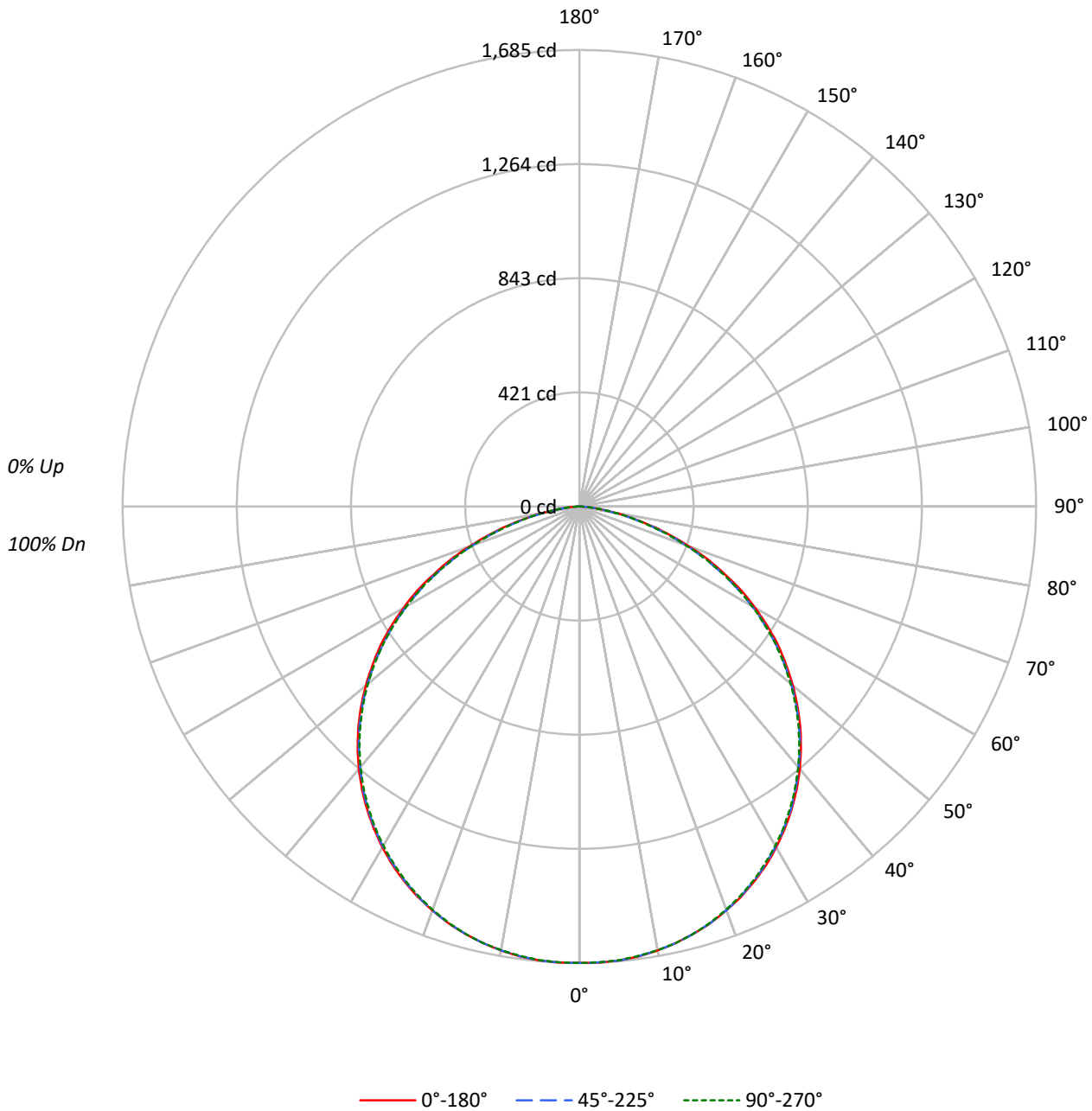
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4763.2 lumens
Efficiency: N/A
Efficacy: 108.0 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): 44.1
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2268	2268	2268
5°	2272	2272	2271
10°	2274	2273	2272
15°	2274	2273	2273
20°	2272	2271	2268
25°	2268	2263	2260
30°	2258	2251	2246
35°	2243	2237	2229
40°	2223	2209	2206
45°	2194	2182	2175
50°	2153	2137	2130
55°	2102	2073	2070
60°	2014	1979	1979
65°	1885	1840	1846
70°	1696	1644	1639
75°	1424	1367	1361
80°	1040	989	1031
85°	588	542	551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2194 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	3.4
10°-20°	460.8	9.7
20°-30°	702.6	14.8
30°-40°	851.3	17.9
40°-50°	884.3	18.6
50°-60°	791.1	16.6
60°-70°	576.5	12.1
70°-80°	285.5	6.0
80°-90°	51.0	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°	1323.5	27.8
0°-40°	2174.8	45.7
0°-60°	3850.1	80.8
0°-90°	4763.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4763.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1685	1685	1685	1685	1685	
5°	1682	1683	1682	1682	1681	160
15°	1633	1632	1632	1633	1632	461
25°	1528	1526	1524	1524	1522	704
35°	1365	1364	1362	1359	1357	854
45°	1153	1151	1146	1144	1143	889
55°	896	890	884	884	882	798
65°	592	587	578	580	580	587
75°	274	270	263	268	262	292
85°	38	35	35	36	36	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.3	1685.3	1685.3	1685.3	1685.3
2.5°	1685.3	1684.7	1684.7	1685.3	1684.1
5°	1682.3	1682.9	1682.3	1682.3	1681.1
7.5°	1675.6	1675.0	1674.4	1675.0	1673.2
10°	1664.1	1664.1	1663.5	1664.1	1662.9
12.5°	1650.2	1650.2	1650.2	1650.8	1650.2
15°	1632.7	1632.1	1632.1	1633.3	1632.1
17.5°	1612.1	1611.5	1611.5	1610.9	1609.7
20°	1586.7	1586.7	1586.1	1585.5	1583.7
22.5°	1559.5	1558.9	1557.1	1557.1	1554.7
25°	1527.5	1525.7	1524.5	1523.9	1522.0
27.5°	1492.4	1490.0	1488.2	1487.0	1485.2
30°	1453.1	1450.7	1448.9	1447.1	1445.8
32.5°	1410.8	1409.6	1406.5	1405.9	1403.5
35°	1365.4	1363.6	1361.8	1359.4	1357.0
37.5°	1317.0	1315.2	1311.0	1309.8	1308.0
40°	1265.6	1263.2	1257.8	1257.8	1256.0
42.5°	1210.6	1208.2	1204.6	1202.1	1200.9
45°	1153.2	1150.8	1146.5	1144.1	1142.9
47.5°	1092.1	1090.3	1085.4	1083.6	1081.8
50°	1028.6	1026.2	1020.7	1019.5	1017.7
52.5°	962.1	960.9	953.6	953.0	951.2
55°	896.2	889.5	883.5	883.5	882.3
57.5°	823.6	818.8	810.9	810.9	809.7
60°	748.6	744.4	735.3	736.5	735.3
62.5°	675.5	666.4	657.9	661.5	658.5
65°	592.0	587.2	578.1	580.5	579.9
67.5°	515.8	506.7	498.3	503.1	500.7
70°	431.2	426.3	417.8	422.7	416.6
72.5°	351.3	347.1	338.6	344.1	338.0
75°	273.9	269.7	263.0	267.9	261.8
77.5°	200.8	197.7	191.7	196.5	197.7
80°	134.2	130.6	127.6	131.8	133.0
82.5°	78.6	76.2	75.0	75.6	78.6
85°	38.1	35.1	35.1	35.7	35.7
87.5°	10.3	9.1	10.3	10.9	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)