

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: P974262

Luminaire Tested: FLR2-24-55-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974262
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-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-55-L935-CP375
Ballast/Driver: -

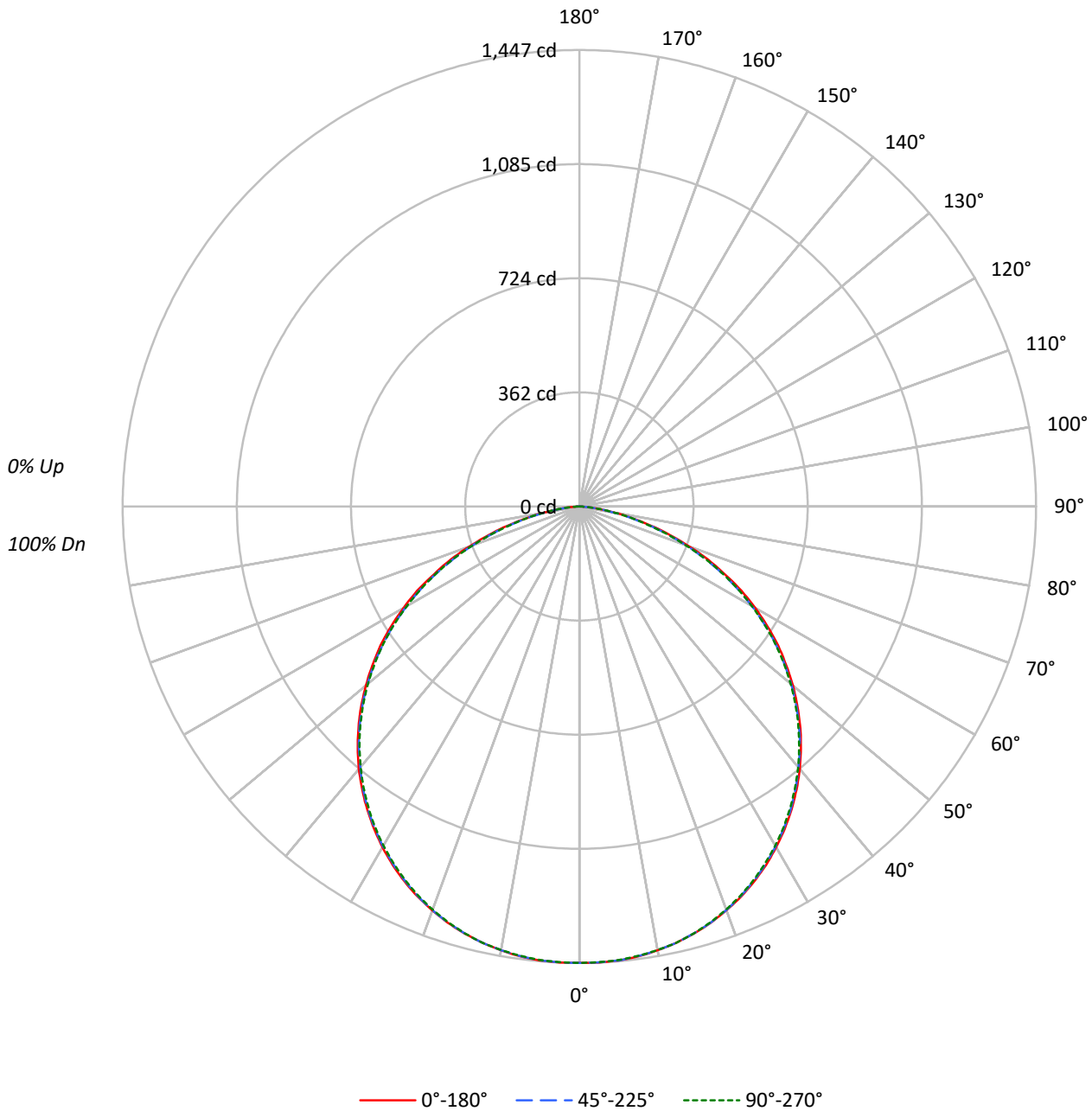
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4089.6 lumens
Efficiency: N/A
Efficacy: 92.7 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): 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				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	0
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°	1947	1947	1947
5°	1951	1951	1949
10°	1952	1951	1951
15°	1953	1952	1952
20°	1951	1950	1947
25°	1947	1943	1940
30°	1938	1933	1929
35°	1926	1920	1914
40°	1909	1897	1894
45°	1884	1873	1867
50°	1849	1834	1829
55°	1805	1779	1777
60°	1730	1699	1699
65°	1618	1580	1585
70°	1456	1412	1407
75°	1223	1174	1169
80°	893	848	885
85°	505	465	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.4
10°-20°	395.7	9.7
20°-30°	603.3	14.8
30°-40°	730.9	17.9
40°-50°	759.2	18.6
50°-60°	679.2	16.6
60°-70°	495.0	12.1
70°-80°	245.1	6.0
80°-90°	43.8	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°	1136.3	27.8
0°-40°	1867.2	45.7
0°-60°	3305.6	80.8
0°-90°	4089.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4089.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1444	1445	1444	1444	1443	137
15°	1402	1401	1401	1402	1401	396
25°	1312	1310	1309	1308	1307	604
35°	1172	1171	1169	1167	1165	733
45°	990	988	984	982	981	763
55°	769	764	758	758	758	686
65°	508	504	496	498	498	504
75°	235	232	226	230	225	251
85°	33	30	30	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.0	1447.0	1447.0	1447.0	1447.0
2.5°	1447.0	1446.5	1446.5	1447.0	1445.9
5°	1444.4	1444.9	1444.4	1444.4	1443.3
7.5°	1438.7	1438.2	1437.6	1438.2	1436.6
10°	1428.8	1428.8	1428.3	1428.8	1427.8
12.5°	1416.9	1416.9	1416.9	1417.4	1416.9
15°	1401.8	1401.3	1401.3	1402.3	1401.3
17.5°	1384.2	1383.6	1383.6	1383.1	1382.1
20°	1362.4	1362.4	1361.8	1361.3	1359.8
22.5°	1339.0	1338.5	1336.9	1336.9	1334.8
25°	1311.5	1309.9	1308.9	1308.4	1306.8
27.5°	1281.4	1279.3	1277.7	1276.7	1275.1
30°	1247.6	1245.5	1244.0	1242.4	1241.4
32.5°	1211.3	1210.2	1207.6	1207.1	1205.0
35°	1172.3	1170.8	1169.2	1167.1	1165.1
37.5°	1130.8	1129.2	1125.6	1124.6	1123.0
40°	1086.7	1084.6	1079.9	1079.9	1078.4
42.5°	1039.4	1037.3	1034.2	1032.1	1031.1
45°	990.1	988.0	984.4	982.3	981.3
47.5°	937.7	936.1	931.9	930.4	928.8
50°	883.1	881.1	876.4	875.4	873.8
52.5°	826.0	825.0	818.8	818.2	816.7
55°	769.4	763.7	758.5	758.5	757.5
57.5°	707.1	703.0	696.2	696.2	695.2
60°	642.8	639.1	631.3	632.4	631.3
62.5°	579.9	572.1	564.9	568.0	565.4
65°	508.3	504.1	496.3	498.4	497.9
67.5°	442.9	435.1	427.8	432.0	429.9
70°	370.2	366.0	358.8	362.9	357.7
72.5°	301.6	298.0	290.7	295.4	290.2
75°	235.2	231.6	225.8	230.0	224.8
77.5°	172.4	169.8	164.6	168.7	169.8
80°	115.3	112.1	109.5	113.2	114.2
82.5°	67.5	65.4	64.4	64.9	67.5
85°	32.7	30.1	30.1	30.6	30.6
87.5°	8.8	7.8	8.8	9.3	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)