

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: P974261

Luminaire Tested: FLR2-24-45-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974261
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: FLR2-24-45-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L935-CP375
Ballast/Driver: -

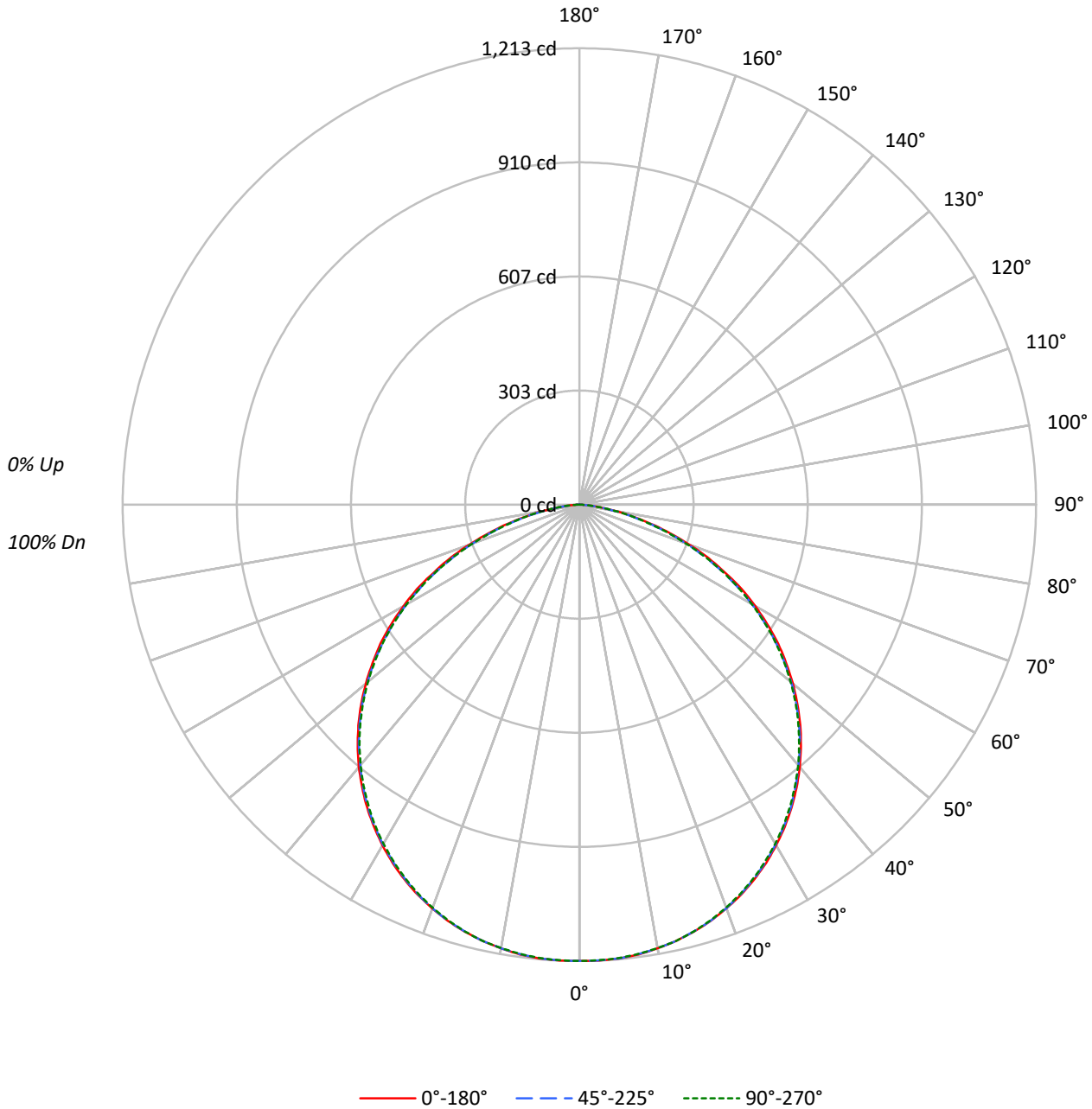
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3428.4 lumens
Efficiency: N/A
Efficacy: 96.3 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): 35.6
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									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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																
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	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																
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	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																
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	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																
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	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																
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1632	1632	1632
5°	1635	1635	1634
10°	1636	1636	1635
15°	1637	1636	1636
20°	1635	1635	1632
25°	1632	1629	1626
30°	1625	1620	1617
35°	1614	1610	1604
40°	1600	1590	1588
45°	1579	1570	1565
50°	1550	1538	1533
55°	1513	1492	1490
60°	1450	1424	1424
65°	1357	1325	1329
70°	1221	1183	1180
75°	1025	984	980
80°	748	711	742
85°	423	389	397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1579 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.4
10°-20°	331.7	9.7
20°-30°	505.7	14.8
30°-40°	612.7	17.9
40°-50°	636.5	18.6
50°-60°	569.4	16.6
60°-70°	415.0	12.1
70°-80°	205.5	6.0
80°-90°	36.7	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°	952.6	27.8
0°-40°	1565.3	45.7
0°-60°	2771.2	80.8
0°-90°	3428.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1211	1211	1211	1211	1210	115
15°	1175	1175	1175	1176	1175	332
25°	1099	1098	1097	1097	1096	507
35°	983	982	980	978	977	615
45°	830	828	825	824	823	640
55°	645	640	636	636	635	575
65°	426	423	416	418	417	422
75°	197	194	189	193	188	210
85°	27	25	25	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.0	1213.0	1213.0	1213.0	1213.0
2.5°	1213.0	1212.6	1212.6	1213.0	1212.2
5°	1210.9	1211.3	1210.9	1210.9	1210.0
7.5°	1206.1	1205.6	1205.2	1205.6	1204.3
10°	1197.8	1197.8	1197.4	1197.8	1196.9
12.5°	1187.8	1187.8	1187.8	1188.2	1187.8
15°	1175.2	1174.7	1174.7	1175.6	1174.7
17.5°	1160.4	1159.9	1159.9	1159.5	1158.6
20°	1142.1	1142.1	1141.7	1141.2	1139.9
22.5°	1122.5	1122.1	1120.8	1120.8	1119.0
25°	1099.4	1098.1	1097.3	1096.8	1095.5
27.5°	1074.2	1072.5	1071.1	1070.3	1069.0
30°	1045.9	1044.2	1042.9	1041.5	1040.7
32.5°	1015.4	1014.6	1012.4	1012.0	1010.2
35°	982.8	981.5	980.2	978.4	976.7
37.5°	948.0	946.7	943.6	942.7	941.4
40°	911.0	909.2	905.3	905.3	904.0
42.5°	871.4	869.6	867.0	865.3	864.4
45°	830.0	828.3	825.2	823.5	822.6
47.5°	786.1	784.8	781.3	780.0	778.7
50°	740.4	738.6	734.7	733.8	732.5
52.5°	692.5	691.6	686.4	686.0	684.6
55°	645.0	640.3	635.9	635.9	635.0
57.5°	592.8	589.3	583.7	583.7	582.8
60°	538.8	535.8	529.3	530.1	529.3
62.5°	486.2	479.6	473.6	476.2	474.0
65°	426.1	422.6	416.1	417.8	417.4
67.5°	371.3	364.7	358.6	362.1	360.4
70°	310.3	306.8	300.8	304.2	299.9
72.5°	252.9	249.8	243.7	247.7	243.3
75°	197.2	194.1	189.3	192.8	188.5
77.5°	144.5	142.3	138.0	141.5	142.3
80°	96.6	94.0	91.8	94.9	95.8
82.5°	56.6	54.8	54.0	54.4	56.6
85°	27.4	25.2	25.2	25.7	25.7
87.5°	7.4	6.5	7.4	7.8	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)