

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: P974245

Luminaire Tested: FLR2-24-45-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974245
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L935-CP187
Ballast/Driver: -

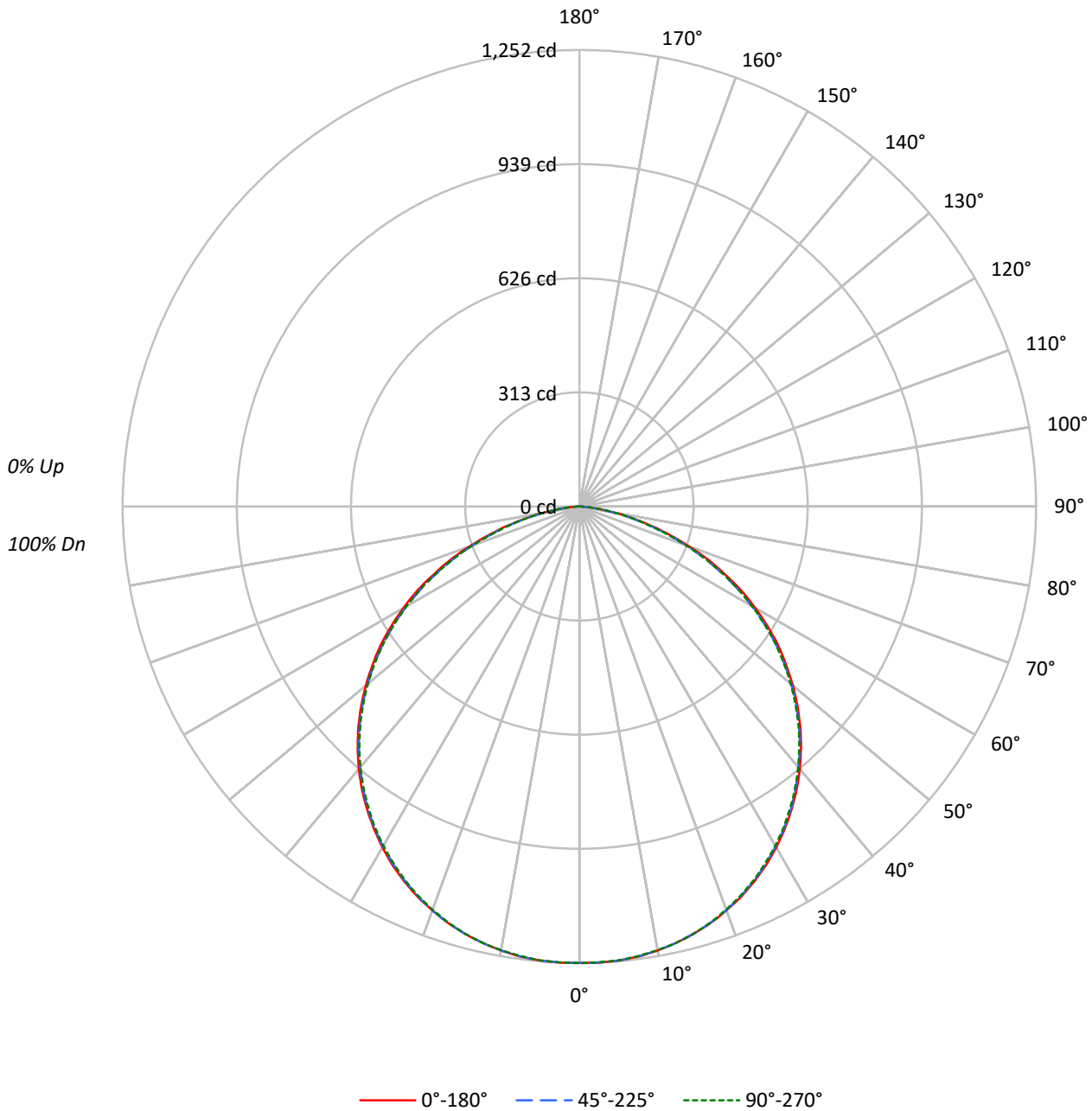
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3539.5 lumens
Efficiency: N/A
Efficacy: 99.4 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				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°	1685	1685	1685
5°	1688	1688	1687
10°	1689	1689	1688
15°	1690	1689	1689
20°	1688	1688	1685
25°	1685	1682	1679
30°	1678	1673	1669
35°	1667	1662	1656
40°	1652	1642	1639
45°	1631	1621	1616
50°	1600	1588	1583
55°	1562	1540	1538
60°	1497	1470	1470
65°	1401	1368	1372
70°	1260	1221	1218
75°	1058	1016	1012
80°	773	735	766
85°	437	403	409

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.4
10°-20°	342.5	9.7
20°-30°	522.1	14.8
30°-40°	632.6	17.9
40°-50°	657.1	18.6
50°-60°	587.8	16.6
60°-70°	428.4	12.1
70°-80°	212.2	6.0
80°-90°	37.9	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°	983.5	27.8
0°-40°	1616.1	45.7
0°-60°	2861.0	80.8
0°-90°	3539.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3539.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1252	1252	1252	1252	1252	
5°	1250	1250	1250	1250	1249	119
15°	1213	1213	1213	1214	1213	343
25°	1135	1134	1133	1132	1131	523
35°	1015	1013	1012	1010	1008	635
45°	857	855	852	850	849	660
55°	666	661	656	656	656	593
65°	440	436	430	431	431	436
75°	204	200	196	199	195	217
85°	28	26	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1252.3	1252.3	1252.3	1252.3	1252.3
2.5°	1252.3	1251.9	1251.9	1252.3	1251.4
5°	1250.1	1250.5	1250.1	1250.1	1249.2
7.5°	1245.2	1244.7	1244.3	1244.7	1243.4
10°	1236.6	1236.6	1236.2	1236.6	1235.7
12.5°	1226.3	1226.3	1226.3	1226.7	1226.3
15°	1213.3	1212.8	1212.8	1213.7	1212.8
17.5°	1198.0	1197.5	1197.5	1197.1	1196.2
20°	1179.1	1179.1	1178.7	1178.2	1176.9
22.5°	1158.9	1158.4	1157.1	1157.1	1155.3
25°	1135.1	1133.7	1132.8	1132.4	1131.0
27.5°	1109.0	1107.2	1105.9	1105.0	1103.6
30°	1079.8	1078.0	1076.6	1075.3	1074.4
32.5°	1048.3	1047.4	1045.2	1044.7	1042.9
35°	1014.6	1013.3	1011.9	1010.1	1008.3
37.5°	978.7	977.3	974.2	973.3	971.9
40°	940.5	938.7	934.7	934.7	933.3
42.5°	899.6	897.8	895.1	893.3	892.4
45°	856.9	855.1	852.0	850.2	849.3
47.5°	811.5	810.2	806.6	805.2	803.9
50°	764.3	762.6	758.5	757.6	756.3
52.5°	714.9	714.0	708.6	708.2	706.8
55°	665.9	661.0	656.5	656.5	655.6
57.5°	612.0	608.4	602.6	602.6	601.7
60°	556.3	553.2	546.4	547.3	546.4
62.5°	501.9	495.2	488.9	491.6	489.3
65°	439.9	436.3	429.6	431.4	430.9
67.5°	383.3	376.6	370.3	373.9	372.1
70°	320.4	316.8	310.5	314.1	309.6
72.5°	261.1	257.9	251.6	255.7	251.2
75°	203.6	200.4	195.5	199.1	194.6
77.5°	149.2	146.9	142.4	146.0	146.9
80°	99.8	97.1	94.8	98.0	98.9
82.5°	58.4	56.6	55.7	56.2	58.4
85°	28.3	26.1	26.1	26.5	26.5
87.5°	7.6	6.7	7.6	8.1	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)