

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: P974268

Luminaire Tested: FLR2-24-40-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974268
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: FLR2-24-40-L935-CA080
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-40-L935-CA080
Ballast/Driver: -

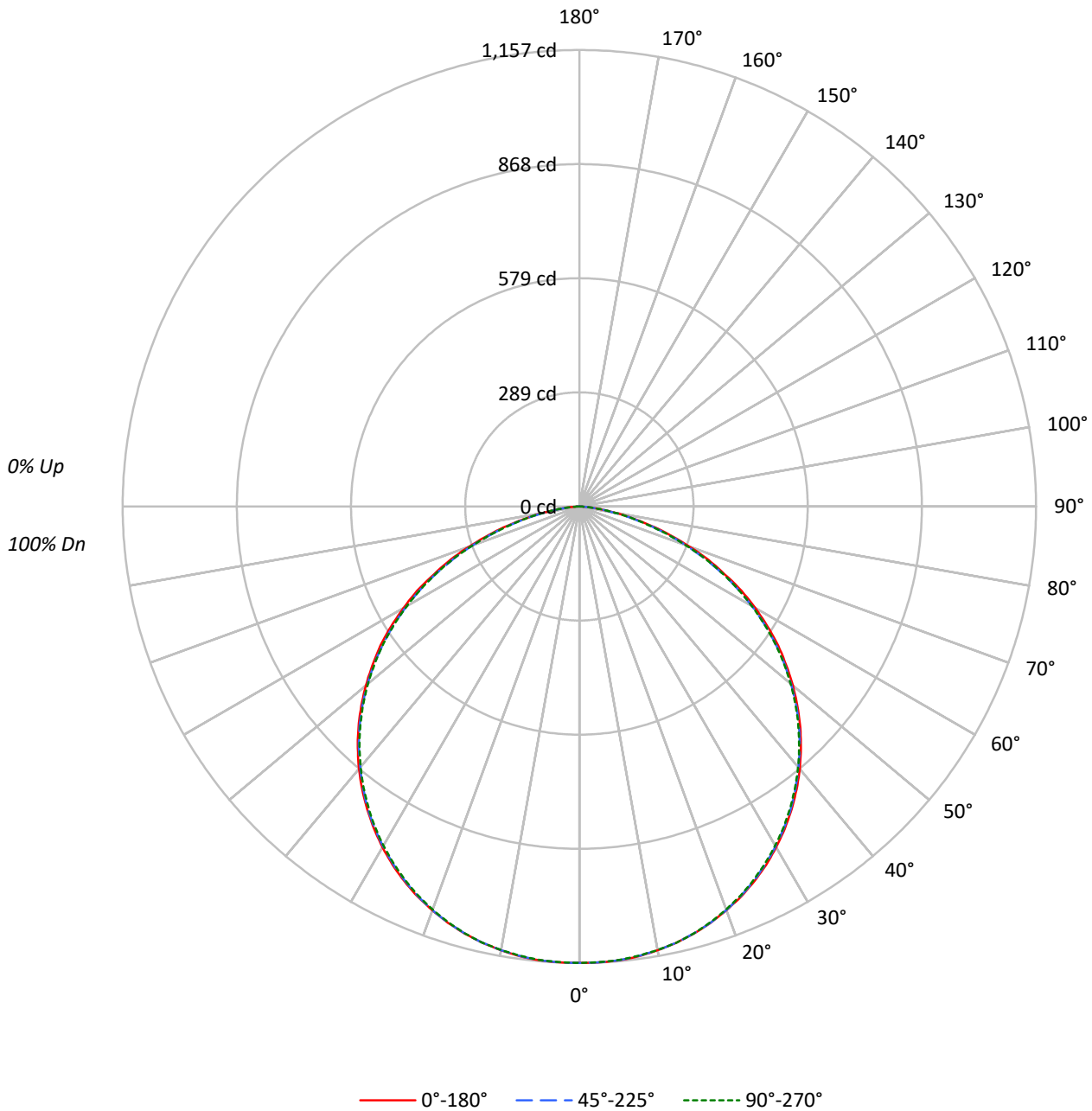
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269.7 lumens
Efficiency: N/A
Efficacy: 107.9 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): 30.3
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°	1557	1557	1557
5°	1560	1560	1559
10°	1561	1560	1560
15°	1561	1561	1561
20°	1560	1559	1557
25°	1557	1554	1551
30°	1550	1545	1542
35°	1540	1535	1530
40°	1526	1516	1514
45°	1506	1498	1493
50°	1478	1467	1462
55°	1443	1423	1421
60°	1383	1358	1358
65°	1294	1263	1267
70°	1164	1128	1125
75°	977	939	934
80°	714	679	707
85°	404	372	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1506 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.4
10°-20°	316.4	9.7
20°-30°	482.3	14.8
30°-40°	584.4	17.9
40°-50°	607.0	18.6
50°-60°	543.0	16.6
60°-70°	395.8	12.1
70°-80°	196.0	6.0
80°-90°	35.1	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°	908.5	27.8
0°-40°	1492.9	45.7
0°-60°	2642.9	80.8
0°-90°	3269.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1155	1155	1155	1155	1154	110
15°	1121	1120	1120	1121	1120	316
25°	1048	1047	1046	1046	1045	483
35°	937	936	935	933	932	586
45°	792	790	787	785	784	610
55°	615	611	606	606	606	548
65°	406	403	397	398	398	403
75°	188	185	181	184	180	200
85°	26	24	24	24	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1156.9	1156.9	1156.9	1156.9	1156.9
2.5°	1156.9	1156.5	1156.5	1156.9	1156.1
5°	1154.8	1155.2	1154.8	1154.8	1154.0
7.5°	1150.2	1149.8	1149.4	1149.8	1148.6
10°	1142.4	1142.4	1141.9	1142.4	1141.5
12.5°	1132.8	1132.8	1132.8	1133.2	1132.8
15°	1120.8	1120.4	1120.4	1121.2	1120.4
17.5°	1106.7	1106.2	1106.2	1105.8	1105.0
20°	1089.2	1089.2	1088.8	1088.4	1087.1
22.5°	1070.5	1070.1	1068.9	1068.9	1067.2
25°	1048.5	1047.3	1046.5	1046.1	1044.8
27.5°	1024.5	1022.8	1021.6	1020.7	1019.5
30°	997.5	995.8	994.6	993.3	992.5
32.5°	968.4	967.6	965.5	965.1	963.4
35°	937.3	936.1	934.8	933.1	931.5
37.5°	904.1	902.8	899.9	899.1	897.9
40°	868.8	867.1	863.4	863.4	862.2
42.5°	831.0	829.4	826.9	825.2	824.4
45°	791.6	789.9	787.0	785.4	784.5
47.5°	749.7	748.4	745.1	743.9	742.6
50°	706.1	704.4	700.7	699.9	698.6
52.5°	660.4	659.6	654.6	654.2	653.0
55°	615.2	610.6	606.5	606.5	605.6
57.5°	565.4	562.0	556.6	556.6	555.8
60°	513.9	511.0	504.8	505.6	504.8
62.5°	463.7	457.4	451.6	454.1	452.0
65°	406.4	403.1	396.8	398.5	398.1
67.5°	354.1	347.9	342.0	345.4	343.7
70°	296.0	292.6	286.8	290.2	286.0
72.5°	241.2	238.3	232.5	236.2	232.0
75°	188.0	185.1	180.6	183.9	179.7
77.5°	137.8	135.7	131.6	134.9	135.7
80°	92.2	89.7	87.6	90.5	91.3
82.5°	54.0	52.3	51.5	51.9	54.0
85°	26.2	24.1	24.1	24.5	24.5
87.5°	7.1	6.2	7.1	7.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)