

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: P975068

Luminaire Tested: FLR2-24-35HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975068
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: FLR2-24-35HE-L950-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

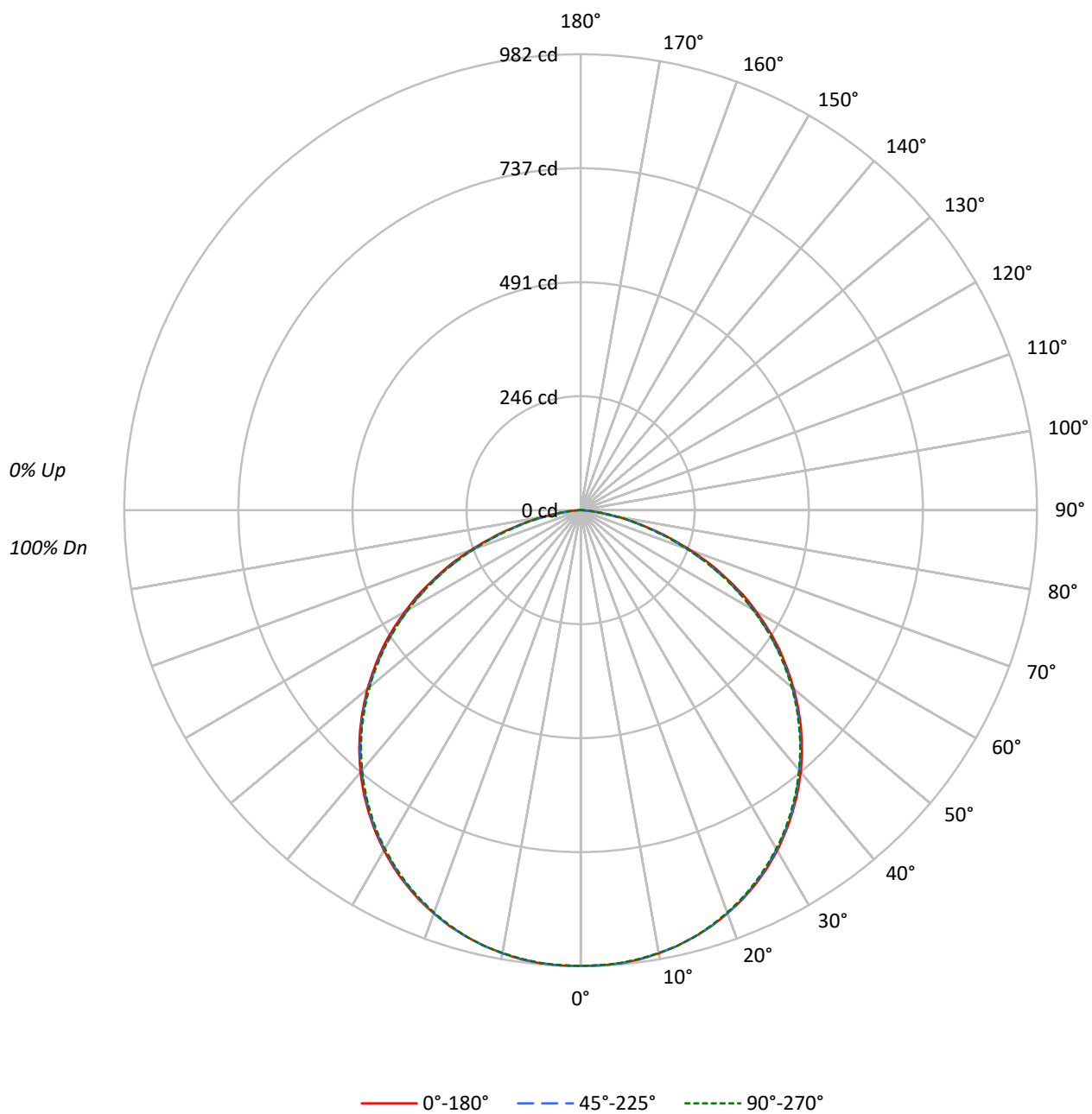
Lumens per Lamp: N/A
Luminaire Lumens: 2774.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1321	1321	1321
5°	1323	1323	1322
10°	1324	1324	1323
15°	1325	1324	1324
20°	1323	1323	1321
25°	1321	1318	1316
30°	1315	1311	1308
35°	1306	1303	1298
40°	1295	1287	1285
45°	1278	1271	1267
50°	1254	1244	1241
55°	1224	1207	1205
60°	1173	1152	1152
65°	1098	1072	1075
70°	988	958	954
75°	829	796	793
80°	606	576	600
85°	343	315	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1278 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.2	3.4
10°-20°	268.4	9.7
20°-30°	409.2	14.8
30°-40°	495.8	17.9
40°-50°	515.0	18.6
50°-60°	460.7	16.6
60°-70°	335.8	12.1
70°-80°	166.3	6.0
80°-90°	29.7	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°	770.8	27.8
0°-40°	1266.6	45.7
0°-60°	2242.3	80.8
0°-90°	2774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	980	980	980	980	979	93
15°	951	950	950	951	950	268
25°	890	888	888	888	886	410
35°	795	794	793	792	790	497
45°	672	670	668	666	666	518
55°	522	518	514	514	514	465
65°	345	342	337	338	338	342
75°	160	157	153	156	152	170
85°	22	20	20	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	981.5	981.5	981.5	981.5	981.5
2.5°	981.5	981.2	981.2	981.5	980.8
5°	979.7	980.1	979.7	979.7	979.0
7.5°	975.9	975.5	975.2	975.5	974.5
10°	969.2	969.2	968.8	969.2	968.5
12.5°	961.1	961.1	961.1	961.4	961.1
15°	950.9	950.5	950.5	951.2	950.5
17.5°	938.9	938.5	938.5	938.2	937.5
20°	924.1	924.1	923.8	923.4	922.3
22.5°	908.3	907.9	906.8	906.8	905.4
25°	889.6	888.5	887.8	887.5	886.4
27.5°	869.2	867.8	866.7	866.0	864.9
30°	846.3	844.9	843.8	842.8	842.0
32.5°	821.6	820.9	819.2	818.8	817.4
35°	795.2	794.2	793.1	791.7	790.3
37.5°	767.0	766.0	763.5	762.8	761.8
40°	737.1	735.7	732.5	732.5	731.5
42.5°	705.1	703.6	701.5	700.1	699.4
45°	671.6	670.2	667.7	666.3	665.6
47.5°	636.0	635.0	632.2	631.1	630.0
50°	599.0	597.6	594.5	593.8	592.7
52.5°	560.3	559.6	555.4	555.0	554.0
55°	521.9	518.0	514.5	514.5	513.8
57.5°	479.7	476.8	472.3	472.3	471.6
60°	436.0	433.5	428.2	428.9	428.2
62.5°	393.4	388.1	383.2	385.3	383.5
65°	344.8	342.0	336.7	338.1	337.7
67.5°	300.4	295.1	290.2	293.0	291.6
70°	251.1	248.3	243.4	246.2	242.6
72.5°	204.6	202.1	197.2	200.4	196.9
75°	159.5	157.1	153.2	156.0	152.5
77.5°	116.9	115.2	111.6	114.5	115.2
80°	78.2	76.1	74.3	76.8	77.5
82.5°	45.8	44.4	43.7	44.0	45.8
85°	22.2	20.4	20.4	20.8	20.8
87.5°	6.0	5.3	6.0	6.3	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)