

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: P974848

Luminaire Tested: FLR2-24-35HE-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974848
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-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

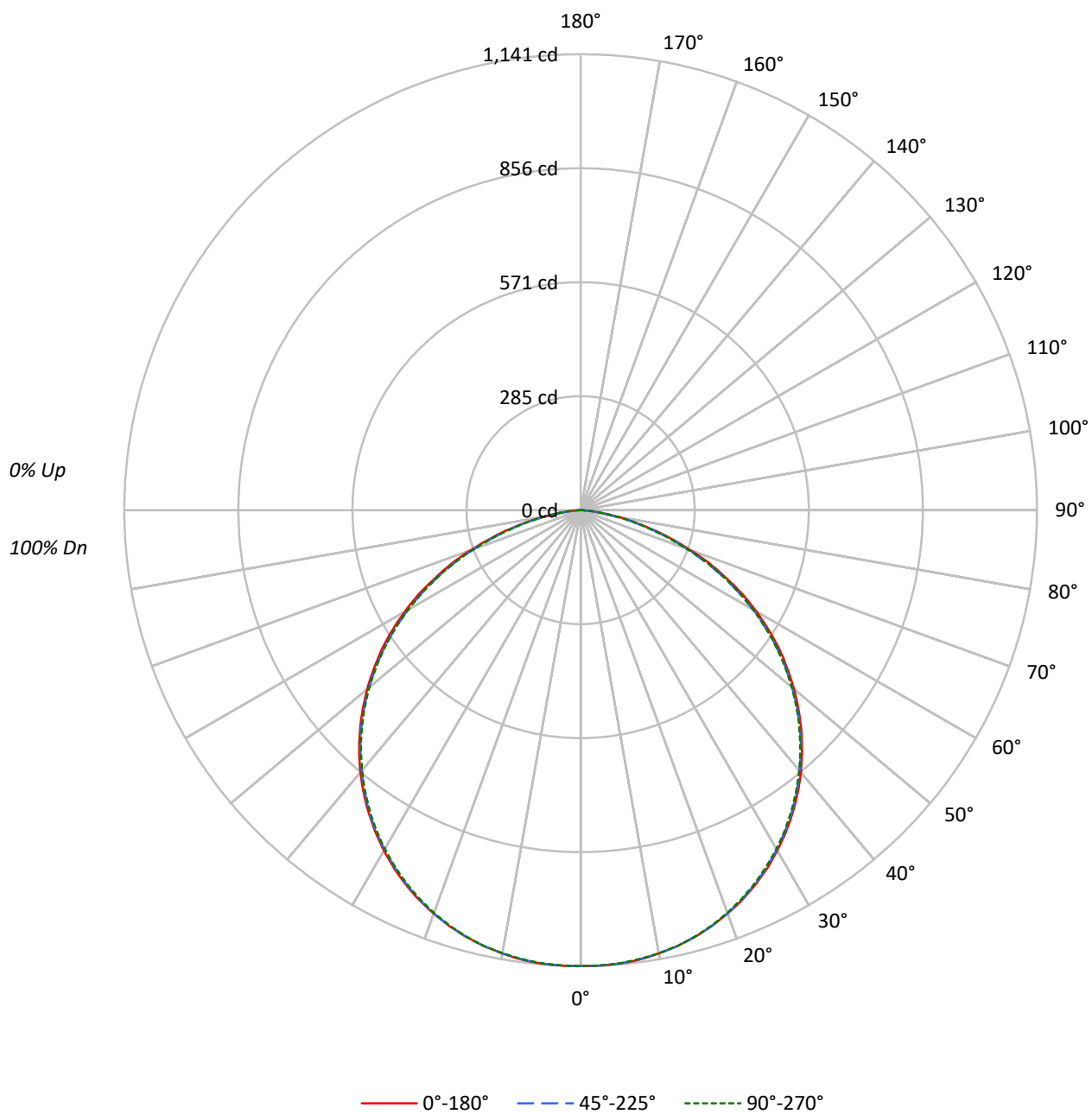
Lumens per Lamp: N/A
Luminaire Lumens: 3224.6 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1535	1535	1535
5°	1538	1538	1537
10°	1539	1539	1538
15°	1540	1539	1539
20°	1538	1538	1535
25°	1535	1532	1530
30°	1528	1524	1521
35°	1518	1514	1509
40°	1505	1496	1493
45°	1486	1477	1472
50°	1458	1446	1442
55°	1423	1403	1401
60°	1364	1340	1340
65°	1276	1246	1250
70°	1148	1113	1110
75°	964	926	922
80°	704	669	698
85°	398	366	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1486 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.4
10°-20°	312.0	9.7
20°-30°	475.7	14.8
30°-40°	576.3	17.9
40°-50°	598.6	18.6
50°-60°	535.5	16.6
60°-70°	390.3	12.1
70°-80°	193.3	6.0
80°-90°	34.6	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°	896.0	27.8
0°-40°	1472.3	45.7
0°-60°	2606.5	80.8
0°-90°	3224.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1139	1139	1139	1139	1138	108
15°	1105	1105	1105	1106	1105	312
25°	1034	1033	1032	1032	1030	477
35°	924	923	922	920	919	578
45°	781	779	776	774	774	602
55°	607	602	598	598	597	541
65°	401	398	391	393	393	397
75°	185	183	178	181	177	198
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°	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1140.9	1140.5	1140.5	1140.9	1140.1
5°	1138.9	1139.3	1138.9	1138.9	1138.1
7.5°	1134.4	1134.0	1133.6	1134.0	1132.7
10°	1126.6	1126.6	1126.2	1126.6	1125.8
12.5°	1117.2	1117.2	1117.2	1117.6	1117.2
15°	1105.3	1104.9	1104.9	1105.7	1104.9
17.5°	1091.4	1091.0	1091.0	1090.6	1089.8
20°	1074.2	1074.2	1073.8	1073.4	1072.2
22.5°	1055.8	1055.4	1054.1	1054.1	1052.5
25°	1034.1	1032.9	1032.0	1031.6	1030.4
27.5°	1010.3	1008.7	1007.5	1006.7	1005.4
30°	983.7	982.1	980.9	979.6	978.8
32.5°	955.1	954.3	952.2	951.8	950.2
35°	924.4	923.1	921.9	920.3	918.6
37.5°	891.6	890.4	887.5	886.7	885.5
40°	856.8	855.2	851.5	851.5	850.3
42.5°	819.6	817.9	815.5	813.8	813.0
45°	780.7	779.0	776.2	774.5	773.7
47.5°	739.3	738.1	734.8	733.6	732.4
50°	696.4	694.7	691.0	690.2	689.0
52.5°	651.3	650.5	645.6	645.2	644.0
55°	606.7	602.2	598.1	598.1	597.3
57.5°	557.6	554.3	549.0	549.0	548.2
60°	506.8	503.9	497.8	498.6	497.8
62.5°	457.3	451.1	445.4	447.9	445.8
65°	400.8	397.5	391.4	393.0	392.6
67.5°	349.2	343.1	337.3	340.6	339.0
70°	291.9	288.6	282.9	286.2	282.1
72.5°	237.8	235.0	229.3	232.9	228.8
75°	185.4	182.6	178.1	181.4	177.3
77.5°	135.9	133.9	129.8	133.0	133.9
80°	90.9	88.4	86.4	89.2	90.1
82.5°	53.2	51.6	50.8	51.2	53.2
85°	25.8	23.7	23.7	24.2	24.2
87.5°	7.0	6.1	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)