

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: P975046

Luminaire Tested: FLR2-24-35HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975046
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

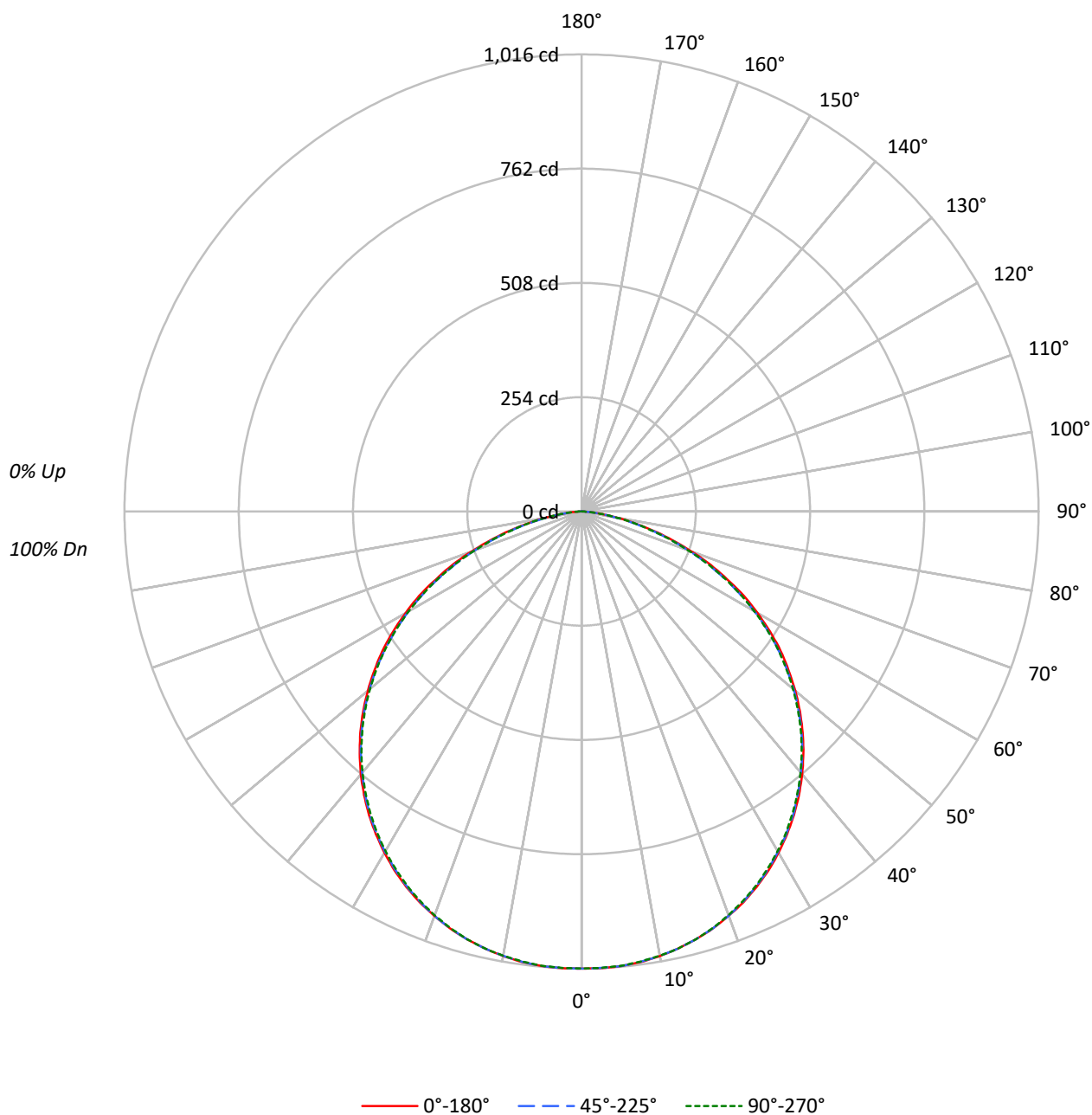
Lumens per Lamp: N/A
Luminaire Lumens: 2872.3 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1367	1367	1367
5°	1370	1370	1369
10°	1371	1370	1370
15°	1371	1371	1371
20°	1370	1370	1367
25°	1367	1365	1363
30°	1361	1357	1355
35°	1352	1349	1344
40°	1340	1332	1330
45°	1323	1316	1311
50°	1298	1288	1285
55°	1268	1250	1248
60°	1215	1193	1193
65°	1137	1110	1113
70°	1023	991	988
75°	859	824	821
80°	628	596	621
85°	355	326	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.4
10°-20°	277.9	9.7
20°-30°	423.7	14.8
30°-40°	513.4	17.9
40°-50°	533.2	18.6
50°-60°	477.0	16.6
60°-70°	347.7	12.1
70°-80°	172.2	6.0
80°-90°	30.8	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°	798.1	27.8
0°-40°	1311.4	45.7
0°-60°	2321.7	80.8
0°-90°	2872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2872.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1016	1016	1016	1016	1016	
5°	1014	1015	1014	1014	1014	96
15°	984	984	984	985	984	278
25°	921	920	919	919	918	424
35°	823	822	821	820	818	515
45°	695	694	691	690	689	536
55°	540	536	533	533	532	481
65°	357	354	349	350	350	354
75°	165	163	159	162	158	176
85°	23	21	21	22	22	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.3	1016.3	1016.3	1016.3	1016.3
2.5°	1016.3	1015.9	1015.9	1016.3	1015.5
5°	1014.4	1014.8	1014.4	1014.4	1013.7
7.5°	1010.4	1010.1	1009.7	1010.1	1009.0
10°	1003.5	1003.5	1003.1	1003.5	1002.8
12.5°	995.1	995.1	995.1	995.5	995.1
15°	984.5	984.2	984.2	984.9	984.2
17.5°	972.1	971.8	971.8	971.4	970.7
20°	956.8	956.8	956.5	956.1	955.0
22.5°	940.4	940.1	939.0	939.0	937.5
25°	921.1	920.0	919.3	918.9	917.8
27.5°	899.9	898.5	897.4	896.7	895.6
30°	876.2	874.8	873.7	872.6	871.9
32.5°	850.7	850.0	848.2	847.8	846.3
35°	823.4	822.3	821.2	819.7	818.3
37.5°	794.2	793.1	790.6	789.8	788.7
40°	763.2	761.7	758.5	758.5	757.4
42.5°	730.0	728.6	726.4	724.9	724.2
45°	695.4	693.9	691.4	689.9	689.2
47.5°	658.6	657.5	654.5	653.4	652.4
50°	620.3	618.8	615.5	614.8	613.7
52.5°	580.2	579.4	575.0	574.7	573.6
55°	540.4	536.4	532.7	532.7	532.0
57.5°	496.6	493.7	489.0	489.0	488.3
60°	451.4	448.9	443.4	444.1	443.4
62.5°	407.3	401.8	396.7	398.9	397.1
65°	357.0	354.1	348.6	350.1	349.7
67.5°	311.0	305.6	300.5	303.4	301.9
70°	260.0	257.1	252.0	254.9	251.2
72.5°	211.9	209.3	204.2	207.5	203.8
75°	165.2	162.6	158.6	161.5	157.9
77.5°	121.1	119.2	115.6	118.5	119.2
80°	81.0	78.8	76.9	79.5	80.2
82.5°	47.4	45.9	45.2	45.6	47.4
85°	23.0	21.1	21.1	21.5	21.5
87.5°	6.2	5.5	6.2	6.6	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)