

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: P975079

Luminaire Tested: FLR2-24-35HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975079
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

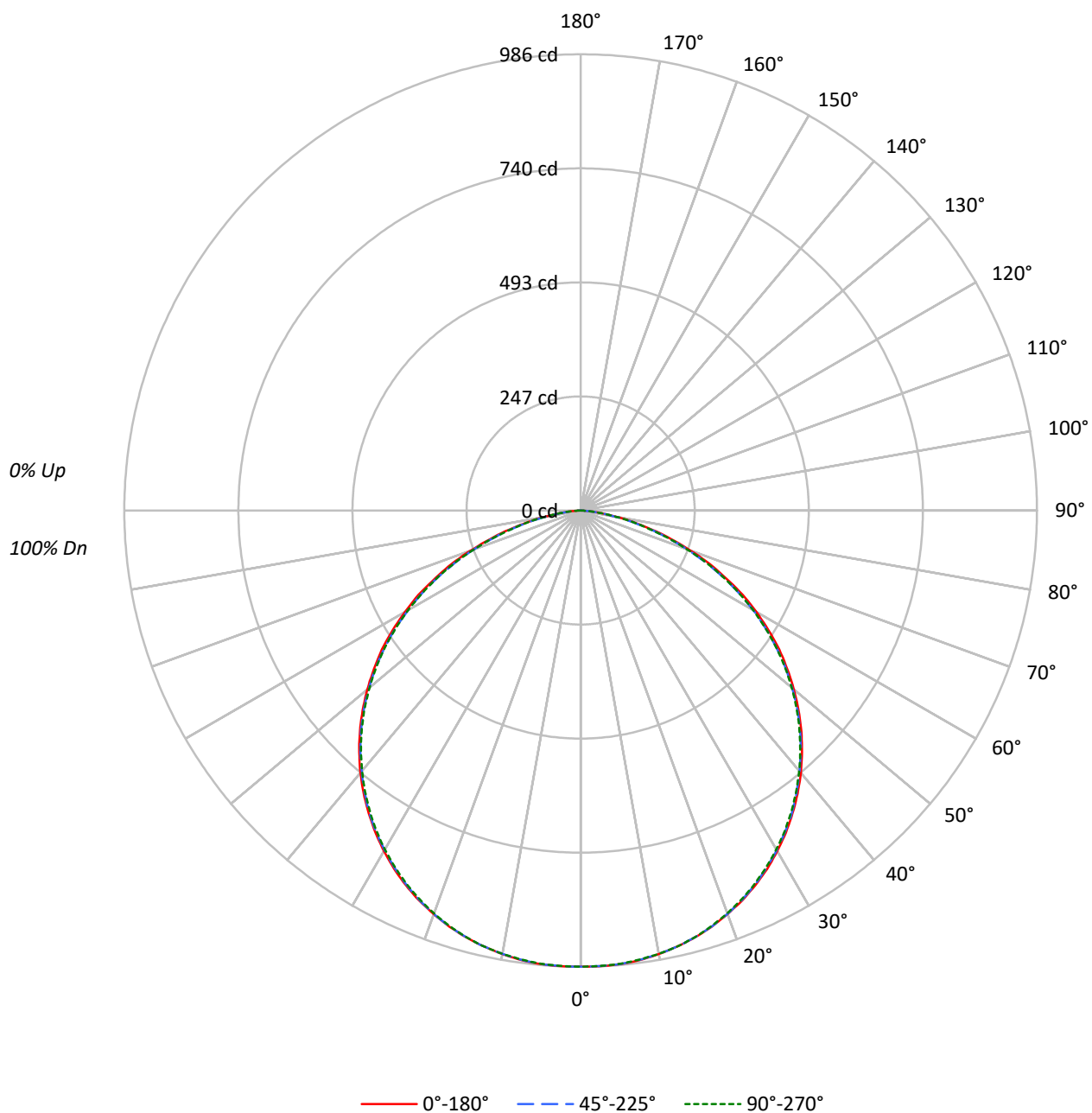
Lumens per Lamp: N/A
Luminaire Lumens: 2786.3 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1327	1327	1327
5°	1329	1329	1328
10°	1330	1329	1329
15°	1330	1330	1330
20°	1329	1328	1326
25°	1326	1324	1322
30°	1321	1317	1314
35°	1312	1308	1304
40°	1300	1292	1290
45°	1284	1276	1272
50°	1259	1250	1246
55°	1230	1212	1211
60°	1178	1157	1157
65°	1103	1077	1080
70°	992	961	959
75°	833	800	796
80°	608	578	603
85°	344	316	323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1284 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.4
10°-20°	269.6	9.7
20°-30°	411.0	14.8
30°-40°	498.0	17.9
40°-50°	517.3	18.6
50°-60°	462.7	16.6
60°-70°	337.3	12.1
70°-80°	167.0	6.0
80°-90°	29.9	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°	774.2	27.8
0°-40°	1272.2	45.7
0°-60°	2252.2	80.8
0°-90°	2786.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	986	986	986	986	986	
5°	984	984	984	984	983	94
15°	955	955	955	955	955	270
25°	894	892	892	891	890	412
35°	799	798	797	795	794	500
45°	675	673	671	669	669	520
55°	524	520	517	517	516	467
65°	346	344	338	340	339	343
75°	160	158	154	157	153	171
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°	985.9	985.9	985.9	985.9	985.9
2.5°	985.9	985.5	985.5	985.9	985.1
5°	984.1	984.4	984.1	984.1	983.4
7.5°	980.2	979.8	979.5	979.8	978.8
10°	973.5	973.5	973.1	973.5	972.8
12.5°	965.3	965.3	965.3	965.7	965.3
15°	955.1	954.7	954.7	955.4	954.7
17.5°	943.1	942.7	942.7	942.3	941.6
20°	928.2	928.2	927.8	927.5	926.4
22.5°	912.3	911.9	910.9	910.9	909.4
25°	893.5	892.5	891.8	891.4	890.3
27.5°	873.0	871.6	870.5	869.8	868.8
30°	850.0	848.6	847.5	846.5	845.8
32.5°	825.3	824.6	822.8	822.4	821.0
35°	798.7	797.7	796.6	795.2	793.8
37.5°	770.4	769.4	766.9	766.2	765.1
40°	740.4	738.9	735.8	735.8	734.7
42.5°	708.2	706.8	704.6	703.2	702.5
45°	674.6	673.2	670.7	669.3	668.6
47.5°	638.8	637.8	635.0	633.9	632.8
50°	601.7	600.3	597.1	596.4	595.3
52.5°	562.8	562.1	557.8	557.5	556.4
55°	524.2	520.3	516.8	516.8	516.1
57.5°	481.8	479.0	474.4	474.4	473.6
60°	437.9	435.4	430.1	430.8	430.1
62.5°	395.1	389.8	384.9	387.0	385.2
65°	346.3	343.5	338.2	339.6	339.2
67.5°	301.7	296.4	291.5	294.3	292.9
70°	252.2	249.4	244.4	247.3	243.7
72.5°	205.5	203.0	198.1	201.3	197.7
75°	160.2	157.8	153.9	156.7	153.2
77.5°	117.4	115.7	112.1	115.0	115.7
80°	78.5	76.4	74.6	77.1	77.8
82.5°	46.0	44.6	43.9	44.2	46.0
85°	22.3	20.5	20.5	20.9	20.9
87.5°	6.0	5.3	6.0	6.4	6.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)