

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: P975033

Luminaire Tested: FLR2-24-20HE-L850-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975033
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: FLR2-24-20HE-L850-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

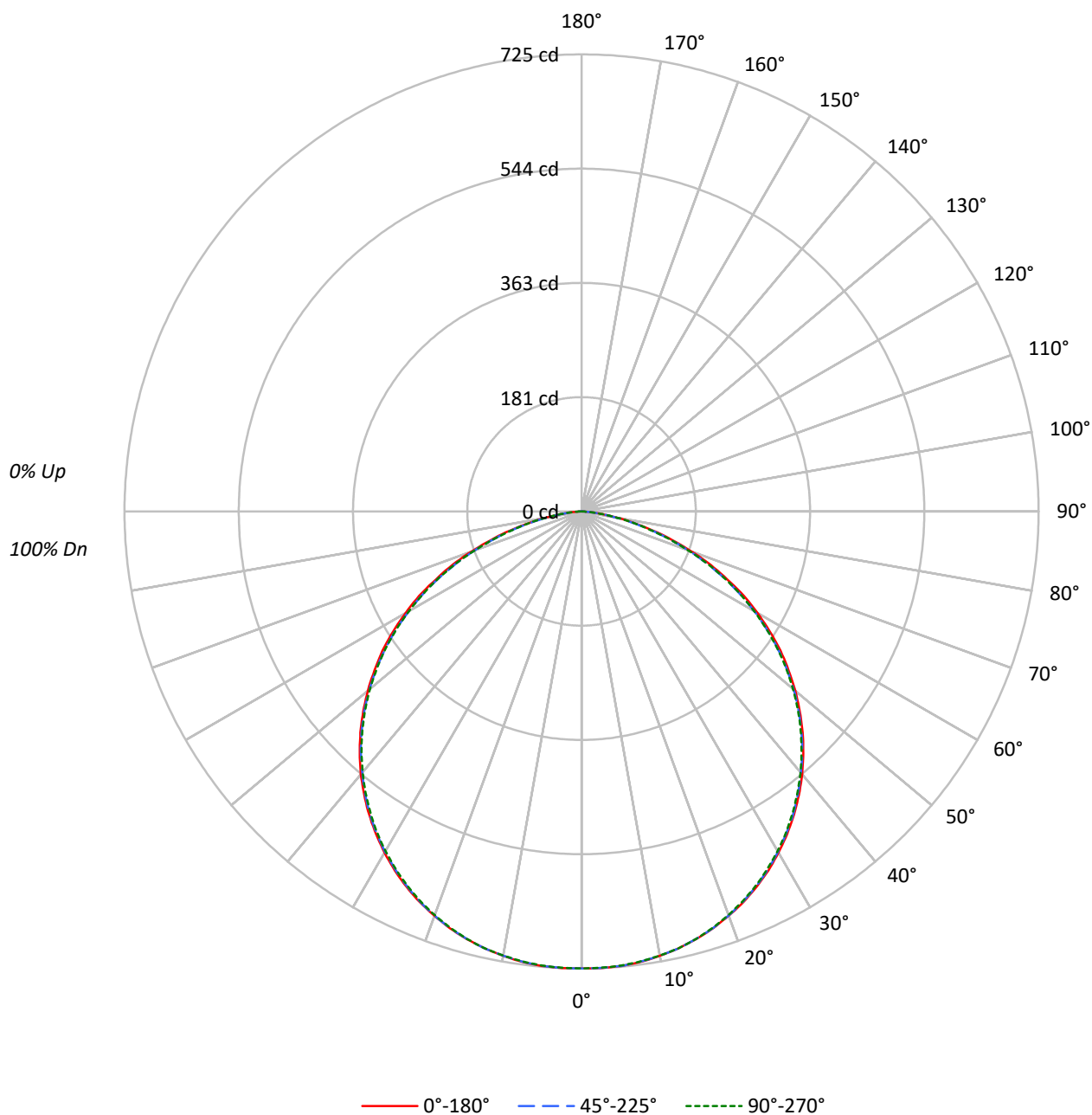
Lumens per Lamp: N/A
Luminaire Lumens: 2049.1 lumens
Efficiency: N/A
Efficacy: 137.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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°	975	975	975
5°	977	977	977
10°	978	978	977
15°	978	978	978
20°	977	977	976
25°	976	974	972
30°	971	968	966
35°	965	962	959
40°	956	950	949
45°	944	938	936
50°	926	919	916
55°	904	892	890
60°	867	851	851
65°	811	792	794
70°	730	707	705
75°	612	588	585
80°	448	425	443
85°	253	233	236

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.4
10°-20°	198.3	9.7
20°-30°	302.3	14.8
30°-40°	366.2	17.9
40°-50°	380.4	18.6
50°-60°	340.3	16.6
60°-70°	248.0	12.1
70°-80°	122.8	6.0
80°-90°	22.0	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°	569.3	27.8
0°-40°	935.6	45.7
0°-60°	1656.3	80.8
0°-90°	2049.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	724	724	724	724	723	69
15°	702	702	702	703	702	198
25°	657	656	656	656	655	303
35°	587	587	586	585	584	367
45°	496	495	493	492	492	382
55°	386	383	380	380	380	343
65°	255	253	249	250	250	253
75°	118	116	113	115	113	126
85°	16	15	15	15	15	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.0	725.0	725.0	725.0	725.0
2.5°	725.0	724.8	724.8	725.0	724.5
5°	723.7	724.0	723.7	723.7	723.2
7.5°	720.8	720.6	720.3	720.6	719.8
10°	715.9	715.9	715.6	715.9	715.4
12.5°	709.9	709.9	709.9	710.2	709.9
15°	702.4	702.1	702.1	702.6	702.1
17.5°	693.5	693.3	693.3	693.0	692.5
20°	682.6	682.6	682.3	682.1	681.3
22.5°	670.9	670.6	669.9	669.9	668.8
25°	657.1	656.3	655.8	655.6	654.8
27.5°	642.0	641.0	640.2	639.7	638.9
30°	625.1	624.1	623.3	622.5	622.0
32.5°	606.9	606.4	605.1	604.8	603.8
35°	587.4	586.6	585.8	584.8	583.8
37.5°	566.6	565.8	564.0	563.5	562.7
40°	544.5	543.4	541.1	541.1	540.3
42.5°	520.8	519.8	518.2	517.2	516.6
45°	496.1	495.0	493.2	492.2	491.7
47.5°	469.8	469.0	467.0	466.2	465.4
50°	442.5	441.5	439.1	438.6	437.8
52.5°	413.9	413.4	410.2	410.0	409.2
55°	385.5	382.7	380.1	380.1	379.5
57.5°	354.3	352.2	348.8	348.8	348.3
60°	322.1	320.2	316.3	316.9	316.3
62.5°	290.6	286.7	283.0	284.6	283.3
65°	254.7	252.6	248.7	249.7	249.5
67.5°	221.9	218.0	214.4	216.4	215.4
70°	185.5	183.4	179.8	181.8	179.2
72.5°	151.1	149.3	145.7	148.0	145.4
75°	117.8	116.0	113.2	115.2	112.6
77.5°	86.4	85.1	82.5	84.5	85.1
80°	57.8	56.2	54.9	56.7	57.2
82.5°	33.8	32.8	32.3	32.5	33.8
85°	16.4	15.1	15.1	15.3	15.3
87.5°	4.4	3.9	4.4	4.7	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)