

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: P973926

Luminaire Tested: FLR2-22-25HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25HE-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

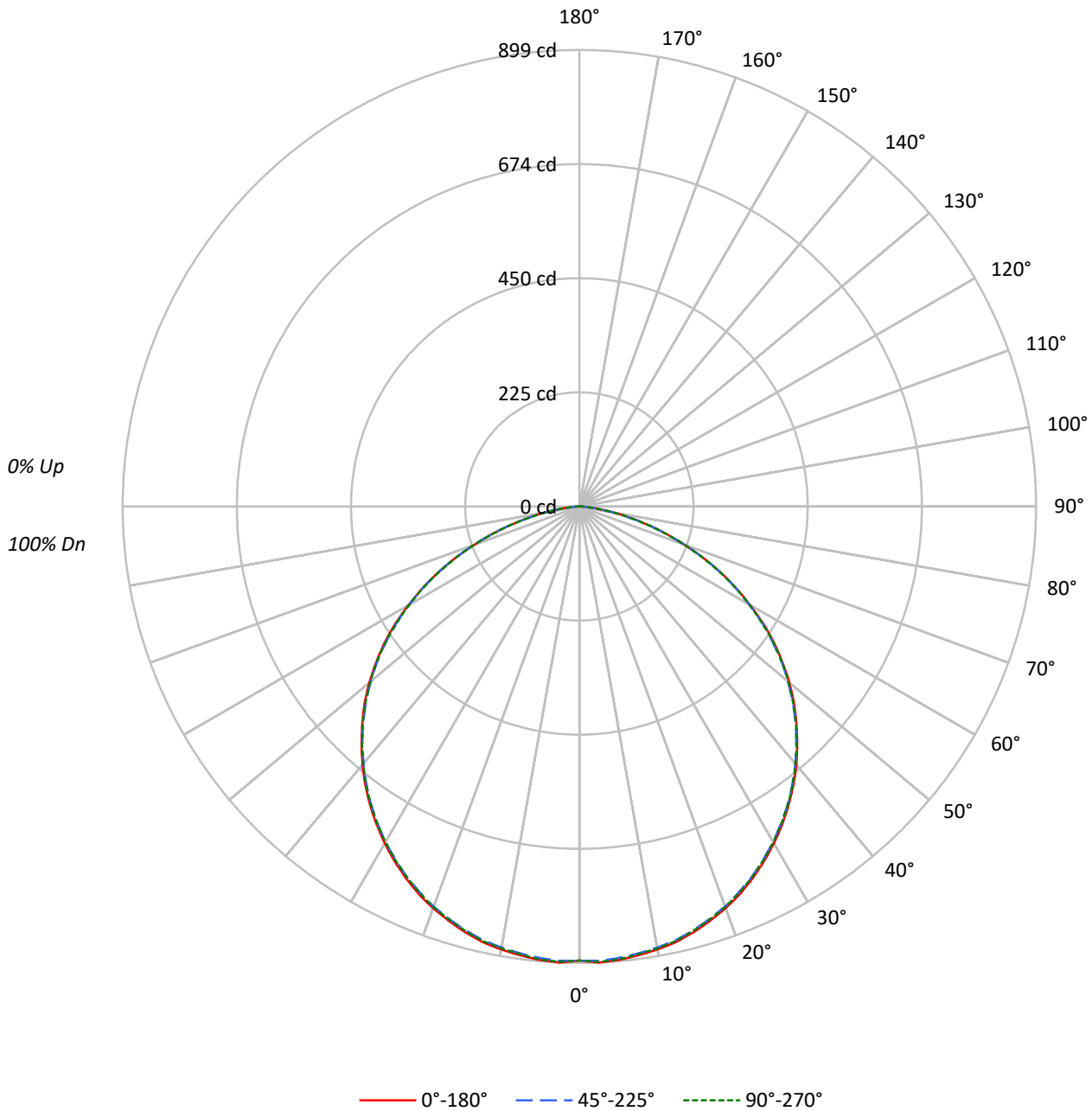
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2500.9 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): 120
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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CATALOG NUMBER: FLR2-22-25HE-L840-CA125

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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2407	2407	2407
5°	2422	2411	2419
10°	2421	2410	2415
15°	2419	2408	2411
20°	2411	2401	2404
25°	2398	2388	2390
30°	2380	2370	2372
35°	2359	2350	2352
40°	2334	2323	2324
45°	2300	2289	2293
50°	2259	2243	2248
55°	2195	2177	2185
60°	2087	2078	2078
65°	1948	1945	1938
70°	1725	1734	1729
75°	1454	1441	1430
80°	1044	1027	1018
85°	546	546	528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2300 cd/sqm



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 CATALOG NUMBER: FLR2-22-25HE-L840-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	3.4
10°-20°	243.5	9.7
20°-30°	370.1	14.8
30°-40°	447.3	17.9
40°-50°	464.3	18.6
50°-60°	415.1	16.6
60°-70°	301.8	12.1
70°-80°	148.4	5.9
80°-90°	25.7	1.0
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°	698.3	27.9
0°-40°	1145.6	45.8
0°-60°	2025.0	81.0
0°-90°	2500.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2500.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	896	886	893	889	895	85
15°	868	858	864	862	866	245
25°	808	799	804	803	805	372
35°	718	713	715	716	716	449
45°	604	602	602	603	603	466
55°	468	465	464	465	466	417
65°	306	307	306	306	304	302
75°	140	141	139	139	138	148
85°	18	18	18	18	17	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.3	894.3	894.3	894.3	894.3
2.5°	899.3	888.8	895.4	891.5	897.6
5°	896.5	886.0	892.6	889.3	895.4
7.5°	891.5	881.0	887.7	884.4	889.3
10°	886.0	875.0	882.1	878.8	883.8
12.5°	878.8	868.3	875.0	872.2	876.6
15°	868.3	858.4	864.5	862.3	865.6
17.5°	855.6	845.7	851.8	850.1	852.9
20°	841.8	832.4	838.5	836.8	839.6
22.5°	826.4	816.4	821.9	820.8	823.0
25°	807.6	798.7	804.3	802.6	804.8
27.5°	787.7	779.4	783.8	783.8	784.9
30°	766.1	758.4	762.8	762.8	763.4
32.5°	742.9	736.9	739.6	740.2	740.2
35°	718.1	713.1	715.3	715.9	715.9
37.5°	692.1	687.2	688.8	689.9	689.9
40°	664.5	660.1	661.2	662.3	661.7
42.5°	634.7	631.4	631.9	633.0	633.0
45°	604.3	601.5	601.5	602.6	602.6
47.5°	573.4	570.6	569.5	570.6	570.6
50°	539.7	536.9	535.8	536.9	536.9
52.5°	504.3	501.6	501.6	501.6	502.1
55°	467.9	465.1	464.0	465.1	465.7
57.5°	429.2	428.1	426.4	427.0	425.3
60°	387.8	387.8	386.1	387.2	386.1
62.5°	347.4	348.5	346.9	346.9	345.8
65°	306.0	307.1	305.5	305.5	304.4
67.5°	263.5	265.1	262.9	262.9	261.8
70°	219.3	222.6	220.4	221.0	219.8
72.5°	179.5	181.2	179.0	179.0	177.9
75°	139.8	140.9	138.6	139.2	137.5
77.5°	100.5	102.2	100.0	100.5	100.0
80°	67.4	67.9	66.3	66.8	65.7
82.5°	39.2	39.8	39.2	38.7	38.1
85°	17.7	18.2	17.7	17.7	17.1
87.5°	4.4	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)