

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: P973920

Luminaire Tested: FLR2-22-25HE-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973920
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

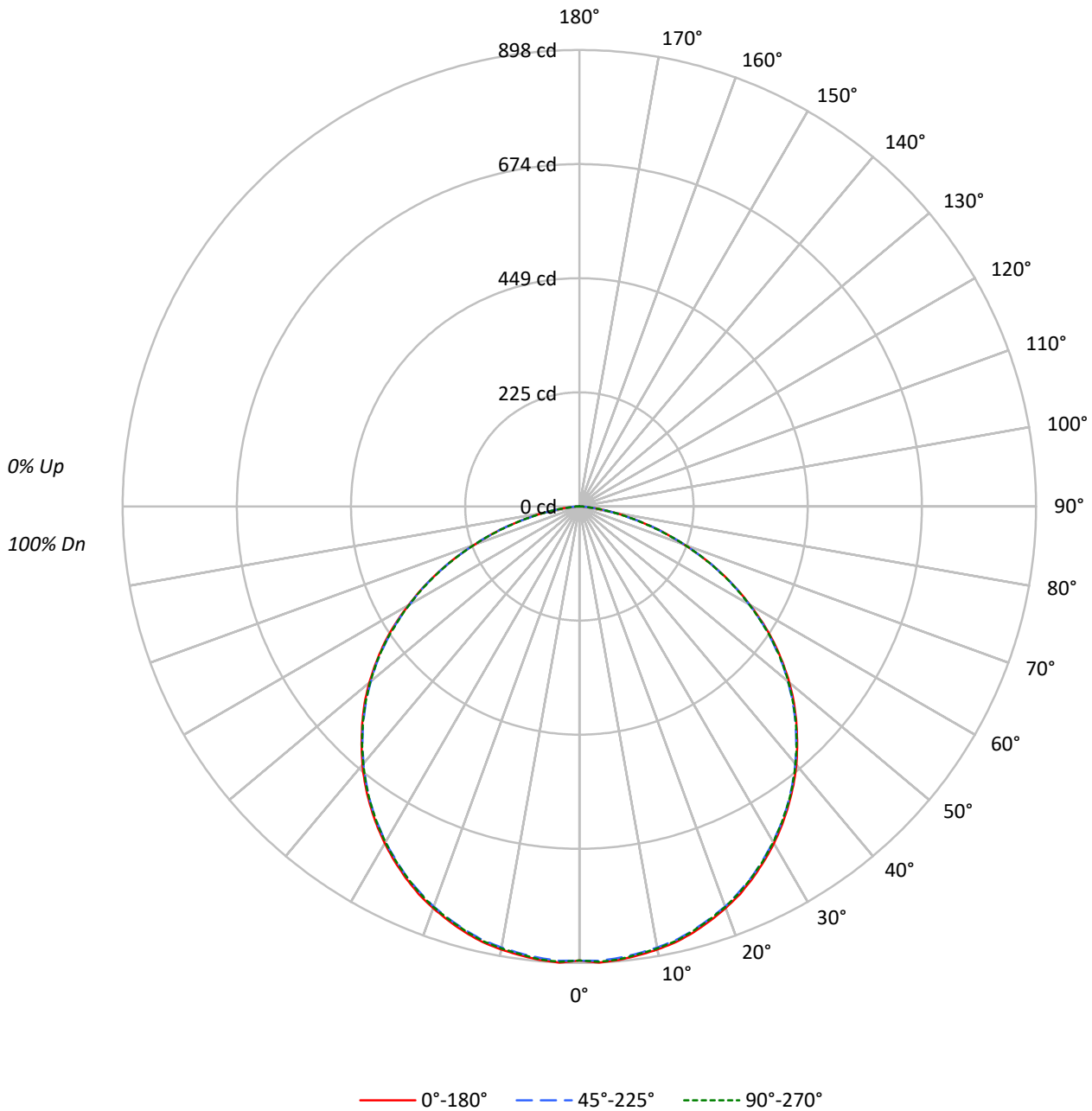
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2498.2 lumens
Efficiency: N/A
Efficacy: 130.1 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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	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						100													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	39	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	40	34	29	27						27													
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2404	2404	2404
5°	2419	2409	2416
10°	2419	2408	2412
15°	2416	2406	2409
20°	2408	2399	2402
25°	2395	2385	2387
30°	2378	2368	2370
35°	2356	2348	2349
40°	2332	2320	2322
45°	2297	2287	2291
50°	2257	2241	2245
55°	2193	2175	2183
60°	2084	2076	2076
65°	1947	1943	1936
70°	1724	1733	1728
75°	1451	1440	1429
80°	1043	1026	1018
85°	546	546	528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.4
10°-20°	243.3	9.7
20°-30°	369.7	14.8
30°-40°	446.8	17.9
40°-50°	463.8	18.6
50°-60°	414.6	16.6
60°-70°	301.5	12.1
70°-80°	148.3	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°	697.5	27.9
0°-40°	1144.4	45.8
0°-60°	2022.8	81.0
0°-90°	2498.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	896	885	892	888	894	85
15°	867	858	864	861	865	245
25°	807	798	803	802	804	372
35°	717	712	715	715	715	449
45°	604	601	601	602	602	466
55°	467	465	464	465	465	417
65°	306	307	305	305	304	301
75°	140	141	138	139	137	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°	893.3	893.3	893.3	893.3	893.3
2.5°	898.3	887.8	894.4	890.6	896.6
5°	895.5	885.1	891.7	888.4	894.4
7.5°	890.6	880.1	886.7	883.4	888.4
10°	885.1	874.0	881.2	877.9	882.8
12.5°	877.9	867.4	874.0	871.3	875.7
15°	867.4	857.5	863.5	861.3	864.6
17.5°	854.7	844.8	850.8	849.2	851.9
20°	840.9	831.5	837.6	835.9	838.7
22.5°	825.5	815.5	821.0	819.9	822.2
25°	806.7	797.9	803.4	801.7	803.9
27.5°	786.8	778.6	783.0	783.0	784.1
30°	765.3	757.6	762.0	762.0	762.6
32.5°	742.1	736.1	738.8	739.4	739.4
35°	717.3	712.3	714.6	715.1	715.1
37.5°	691.4	686.4	688.1	689.2	689.2
40°	663.8	659.4	660.5	661.6	661.0
42.5°	634.0	630.7	631.2	632.3	632.3
45°	603.6	600.9	600.9	602.0	602.0
47.5°	572.7	570.0	568.9	570.0	570.0
50°	539.1	536.3	535.2	536.3	536.3
52.5°	503.8	501.0	501.0	501.0	501.6
55°	467.4	464.6	463.5	464.6	465.2
57.5°	428.7	427.6	426.0	426.5	424.9
60°	387.3	387.3	385.7	386.8	385.7
62.5°	347.1	348.2	346.5	346.5	345.4
65°	305.7	306.8	305.1	305.1	304.0
67.5°	263.2	264.9	262.6	262.6	261.5
70°	219.1	222.4	220.2	220.7	219.6
72.5°	179.3	181.0	178.8	178.8	177.7
75°	139.6	140.7	138.5	139.0	137.4
77.5°	100.4	102.1	99.9	100.4	99.9
80°	67.3	67.9	66.2	66.8	65.7
82.5°	39.2	39.7	39.2	38.6	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)