

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: P973625

Luminaire Tested: FLR2-22-20-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973625
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: FLR2-22-20-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

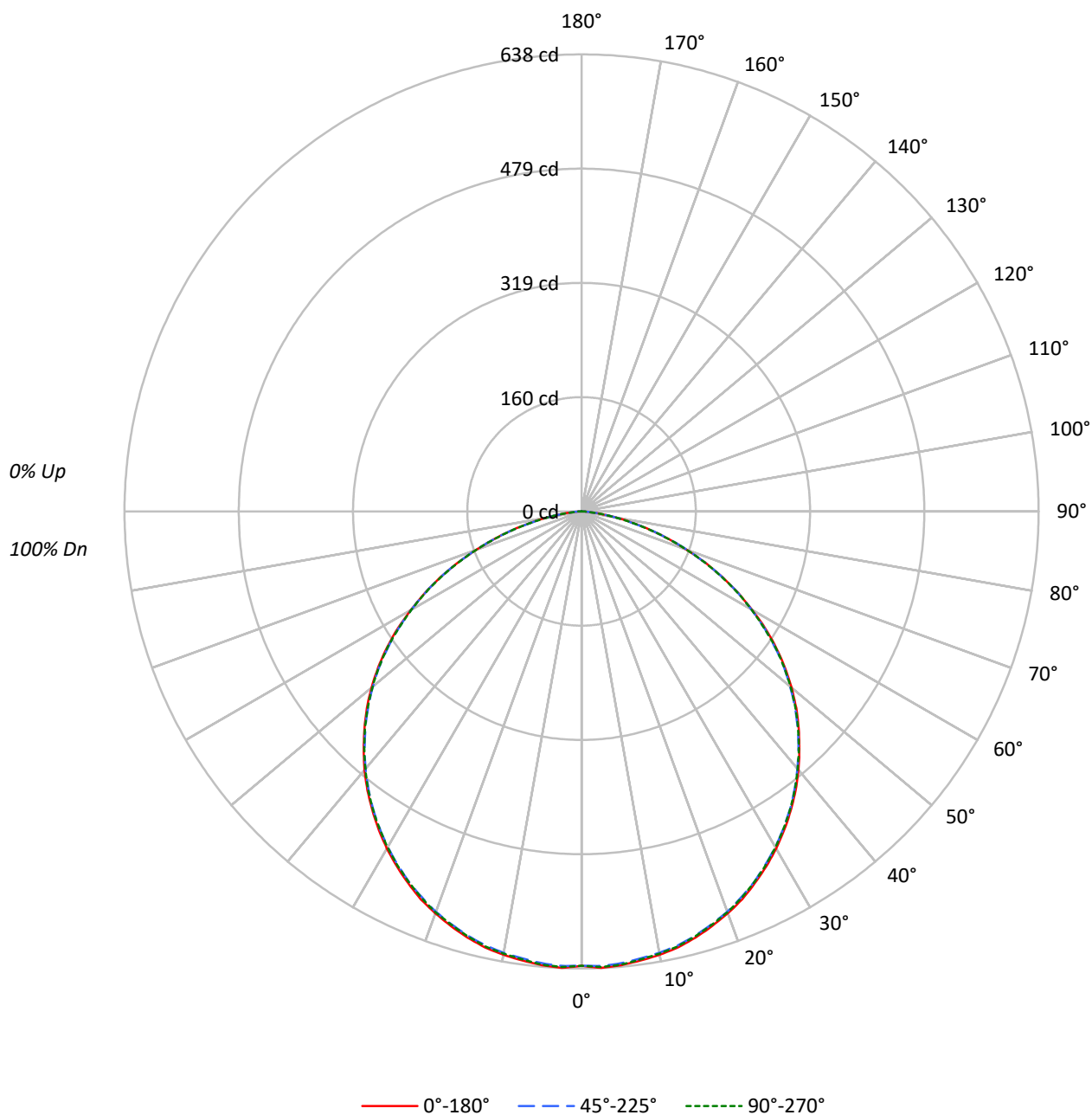
Lumens per Lamp: N/A
Luminaire Lumens: 1773.6 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 15.1
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					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	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°	1707	1707	1707
5°	1717	1710	1715
10°	1717	1709	1713
15°	1716	1708	1710
20°	1710	1703	1705
25°	1700	1694	1695
30°	1688	1681	1682
35°	1673	1667	1668
40°	1656	1647	1649
45°	1631	1623	1627
50°	1602	1591	1594
55°	1557	1544	1549
60°	1480	1474	1474
65°	1382	1379	1375
70°	1223	1230	1227
75°	1030	1022	1014
80°	741	728	722
85°	386	386	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.4
10°-20°	172.7	9.7
20°-30°	262.5	14.8
30°-40°	317.2	17.9
40°-50°	329.3	18.6
50°-60°	294.4	16.6
60°-70°	214.0	12.1
70°-80°	105.2	5.9
80°-90°	18.2	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°	495.2	27.9
0°-40°	812.5	45.8
0°-60°	1436.1	81.0
0°-90°	1773.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	636	628	633	631	635	60
15°	616	609	613	612	614	174
25°	573	566	570	569	571	264
35°	509	506	507	508	508	319
45°	429	427	427	427	427	331
55°	332	330	329	330	330	296
65°	217	218	217	217	216	214
75°	99	100	98	99	98	105
85°	12	13	12	12	12	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	634.2	634.2	634.2	634.2	634.2
2.5°	637.8	630.3	635.0	632.3	636.6
5°	635.8	628.4	633.1	630.7	635.0
7.5°	632.3	624.8	629.5	627.2	630.7
10°	628.4	620.5	625.6	623.3	626.8
12.5°	623.3	615.8	620.5	618.6	621.7
15°	615.8	608.8	613.1	611.5	613.9
17.5°	606.8	599.8	604.1	602.9	604.9
20°	597.0	590.4	594.7	593.5	595.5
22.5°	586.1	579.0	582.9	582.1	583.7
25°	572.7	566.5	570.4	569.2	570.8
27.5°	558.6	552.8	555.9	555.9	556.7
30°	543.4	537.9	541.0	541.0	541.4
32.5°	526.9	522.6	524.5	524.9	524.9
35°	509.3	505.7	507.3	507.7	507.7
37.5°	490.9	487.3	488.5	489.3	489.3
40°	471.3	468.1	468.9	469.7	469.3
42.5°	450.1	447.8	448.2	448.9	448.9
45°	428.6	426.6	426.6	427.4	427.4
47.5°	406.6	404.7	403.9	404.7	404.7
50°	382.7	380.8	380.0	380.8	380.8
52.5°	357.7	355.7	355.7	355.7	356.1
55°	331.8	329.9	329.1	329.9	330.2
57.5°	304.4	303.6	302.4	302.8	301.6
60°	275.0	275.0	273.8	274.6	273.8
62.5°	246.4	247.2	246.0	246.0	245.2
65°	217.0	217.8	216.6	216.6	215.9
67.5°	186.9	188.0	186.5	186.5	185.7
70°	155.5	157.9	156.3	156.7	155.9
72.5°	127.3	128.5	126.9	126.9	126.1
75°	99.1	99.9	98.3	98.7	97.5
77.5°	71.3	72.5	70.9	71.3	70.9
80°	47.8	48.2	47.0	47.4	46.6
82.5°	27.8	28.2	27.8	27.4	27.0
85°	12.5	12.9	12.5	12.5	12.1
87.5°	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)