

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: P973569

Luminaire Tested: FLR2-22-20-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973569
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-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

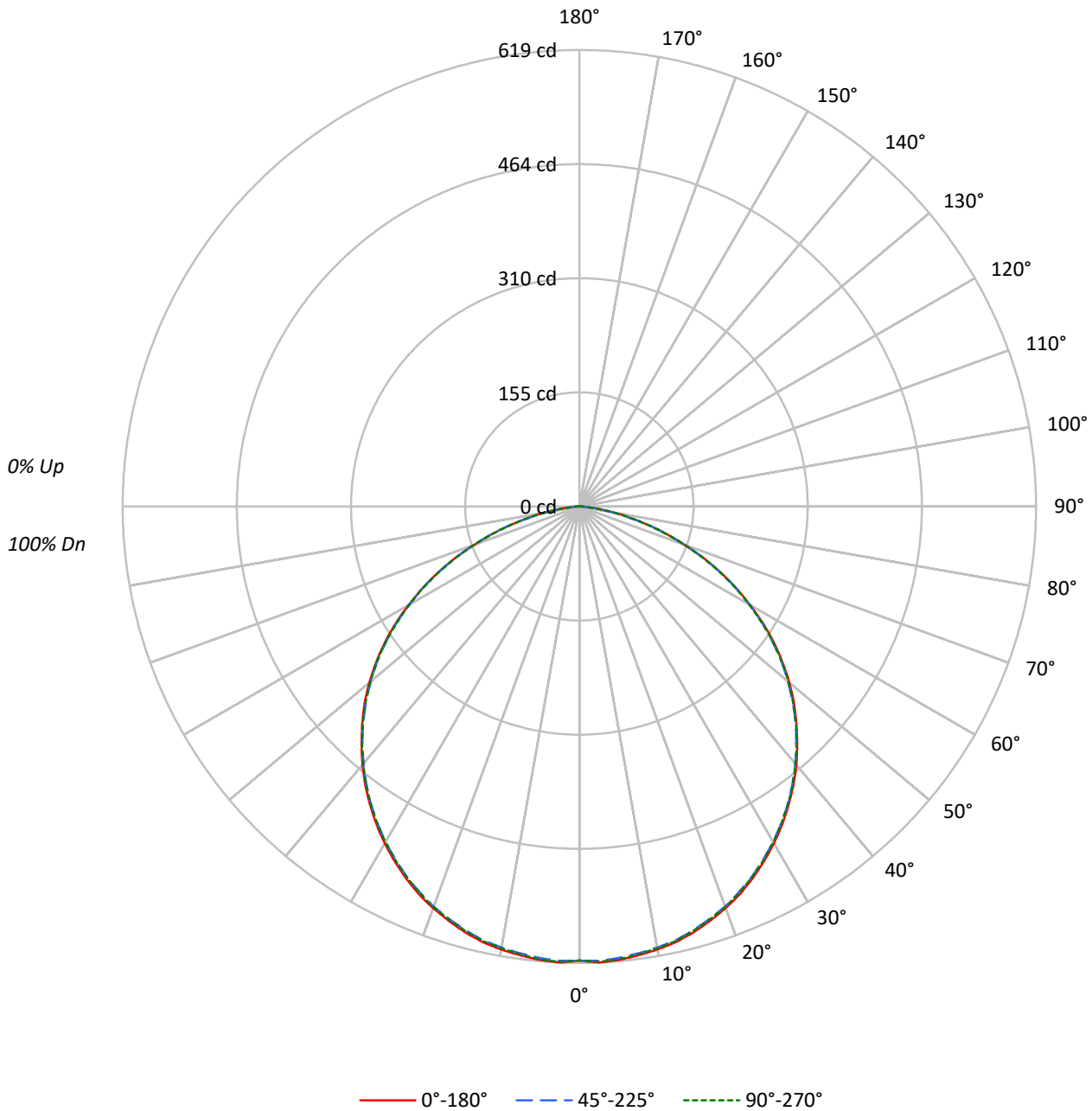
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1722.0 lumens
Efficiency: N/A
Efficacy: 114.0 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										
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	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°	1657	1657	1657
5°	1667	1660	1665
10°	1667	1660	1663
15°	1666	1658	1660
20°	1660	1653	1655
25°	1651	1644	1646
30°	1639	1632	1633
35°	1624	1618	1619
40°	1607	1599	1600
45°	1584	1576	1579
50°	1556	1544	1548
55°	1511	1499	1504
60°	1437	1431	1431
65°	1342	1339	1335
70°	1188	1194	1191
75°	1000	993	985
80°	719	707	702
85°	377	377	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1584 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	3.4
10°-20°	167.7	9.7
20°-30°	254.8	14.8
30°-40°	308.0	17.9
40°-50°	319.7	18.6
50°-60°	285.8	16.6
60°-70°	207.8	12.1
70°-80°	102.2	5.9
80°-90°	17.7	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°	480.8	27.9
0°-40°	788.8	45.8
0°-60°	1394.3	81.0
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	617	610	615	612	616	59
15°	598	591	595	594	596	169
25°	556	550	554	553	554	256
35°	494	491	492	493	493	309
45°	416	414	414	415	415	321
55°	322	320	320	320	321	287
65°	211	212	210	210	210	208
75°	96	97	96	96	95	102
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°	615.8	615.8	615.8	615.8	615.8
2.5°	619.2	612.0	616.5	613.9	618.0
5°	617.3	610.1	614.6	612.3	616.5
7.5°	613.9	606.6	611.2	608.9	612.3
10°	610.1	602.5	607.4	605.1	608.5
12.5°	605.1	597.9	602.5	600.6	603.6
15°	597.9	591.0	595.2	593.7	596.0
17.5°	589.1	582.3	586.5	585.3	587.2
20°	579.6	573.2	577.4	576.2	578.1
22.5°	569.0	562.1	565.9	565.2	566.7
25°	556.1	550.0	553.8	552.6	554.2
27.5°	542.4	536.7	539.7	539.7	540.5
30°	527.5	522.2	525.2	525.2	525.6
32.5°	511.6	507.4	509.3	509.7	509.7
35°	494.4	491.0	492.5	492.9	492.9
37.5°	476.6	473.1	474.3	475.0	475.0
40°	457.5	454.5	455.3	456.0	455.6
42.5°	437.0	434.7	435.1	435.9	435.9
45°	416.1	414.2	414.2	414.9	414.9
47.5°	394.8	392.9	392.1	392.9	392.9
50°	371.6	369.7	368.9	369.7	369.7
52.5°	347.2	345.3	345.3	345.3	345.7
55°	322.1	320.2	319.5	320.2	320.6
57.5°	295.5	294.8	293.6	294.0	292.9
60°	267.0	267.0	265.9	266.6	265.9
62.5°	239.2	240.0	238.9	238.9	238.1
65°	210.7	211.5	210.3	210.3	209.6
67.5°	181.4	182.6	181.0	181.0	180.3
70°	151.0	153.3	151.8	152.1	151.4
72.5°	123.6	124.8	123.2	123.2	122.5
75°	96.2	97.0	95.5	95.8	94.7
77.5°	69.2	70.4	68.8	69.2	68.8
80°	46.4	46.8	45.6	46.0	45.3
82.5°	27.0	27.4	27.0	26.6	26.2
85°	12.2	12.6	12.2	12.2	11.8
87.5°	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)