

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: P973811

Luminaire Tested: FLR2-22-20HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973811
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: FLR2-22-20HE-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

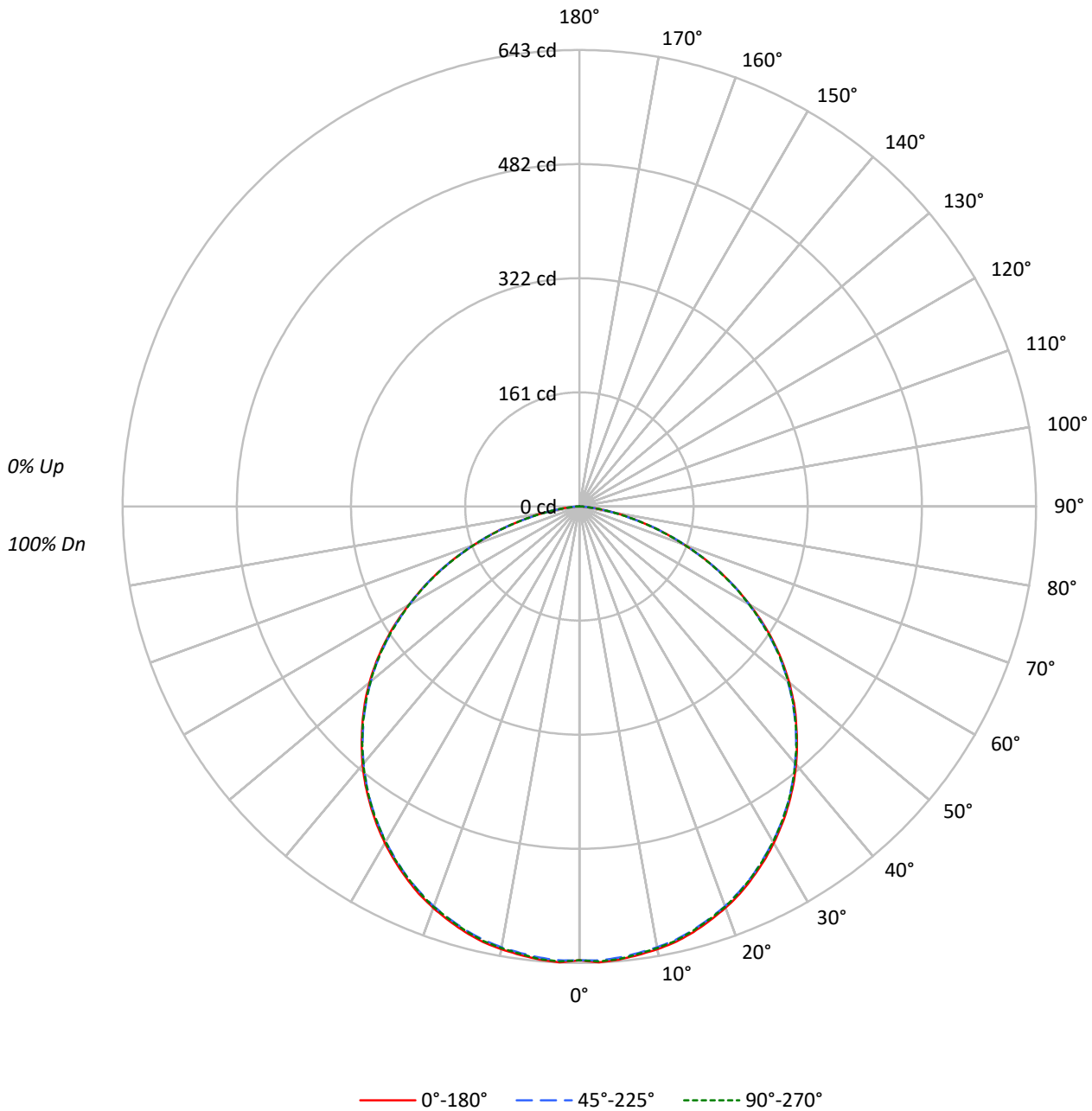
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1787.6 lumens
Efficiency: N/A
Efficacy: 120.8 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): 14.8
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																				
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°	1720	1720	1720
5°	1731	1723	1729
10°	1730	1723	1726
15°	1729	1721	1724
20°	1723	1716	1718
25°	1714	1707	1708
30°	1702	1694	1695
35°	1686	1680	1681
40°	1669	1660	1662
45°	1644	1636	1639
50°	1615	1603	1607
55°	1569	1556	1561
60°	1492	1485	1485
65°	1393	1390	1385
70°	1233	1239	1236
75°	1039	1030	1022
80°	747	735	728
85°	389	389	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.4
10°-20°	174.1	9.7
20°-30°	264.5	14.8
30°-40°	319.7	17.9
40°-50°	331.9	18.6
50°-60°	296.7	16.6
60°-70°	215.7	12.1
70°-80°	106.1	5.9
80°-90°	18.4	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°	499.1	27.9
0°-40°	818.8	45.8
0°-60°	1447.4	81.0
0°-90°	1787.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	641	633	638	636	640	61
15°	621	614	618	616	619	175
25°	577	571	575	574	575	266
35°	513	510	511	512	512	321
45°	432	430	430	431	431	333
55°	334	332	332	332	333	298
65°	219	220	218	218	218	216
75°	100	101	99	100	98	106
85°	13	13	13	13	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	639.2	639.2	639.2	639.2	639.2
2.5°	642.8	635.3	640.0	637.2	641.6
5°	640.8	633.3	638.0	635.7	640.0
7.5°	637.2	629.7	634.5	632.1	635.7
10°	633.3	625.4	630.5	628.2	631.7
12.5°	628.2	620.7	625.4	623.4	626.6
15°	620.7	613.5	617.9	616.3	618.7
17.5°	611.6	604.5	608.8	607.6	609.6
20°	601.7	595.0	599.3	598.1	600.1
22.5°	590.6	583.5	587.5	586.7	588.3
25°	577.2	570.9	574.9	573.7	575.2
27.5°	563.0	557.1	560.2	560.2	561.0
30°	547.6	542.1	545.2	545.2	545.6
32.5°	531.0	526.7	528.7	529.1	529.1
35°	513.3	509.7	511.3	511.7	511.7
37.5°	494.7	491.2	492.3	493.1	493.1
40°	475.0	471.8	472.6	473.4	473.0
42.5°	453.6	451.3	451.7	452.5	452.5
45°	431.9	430.0	430.0	430.7	430.7
47.5°	409.8	407.8	407.1	407.8	407.8
50°	385.7	383.8	383.0	383.8	383.8
52.5°	360.5	358.5	358.5	358.5	358.9
55°	334.4	332.4	331.6	332.4	332.8
57.5°	306.8	306.0	304.8	305.2	304.0
60°	277.2	277.2	276.0	276.8	276.0
62.5°	248.3	249.1	247.9	247.9	247.2
65°	218.7	219.5	218.3	218.3	217.5
67.5°	188.3	189.5	187.9	187.9	187.1
70°	156.7	159.1	157.5	157.9	157.1
72.5°	128.3	129.5	127.9	127.9	127.1
75°	99.9	100.7	99.1	99.5	98.3
77.5°	71.9	73.0	71.5	71.9	71.5
80°	48.2	48.6	47.4	47.8	47.0
82.5°	28.0	28.4	28.0	27.6	27.2
85°	12.6	13.0	12.6	12.6	12.2
87.5°	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)