

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: P973841

Luminaire Tested: FLR2-22-20HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973841
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

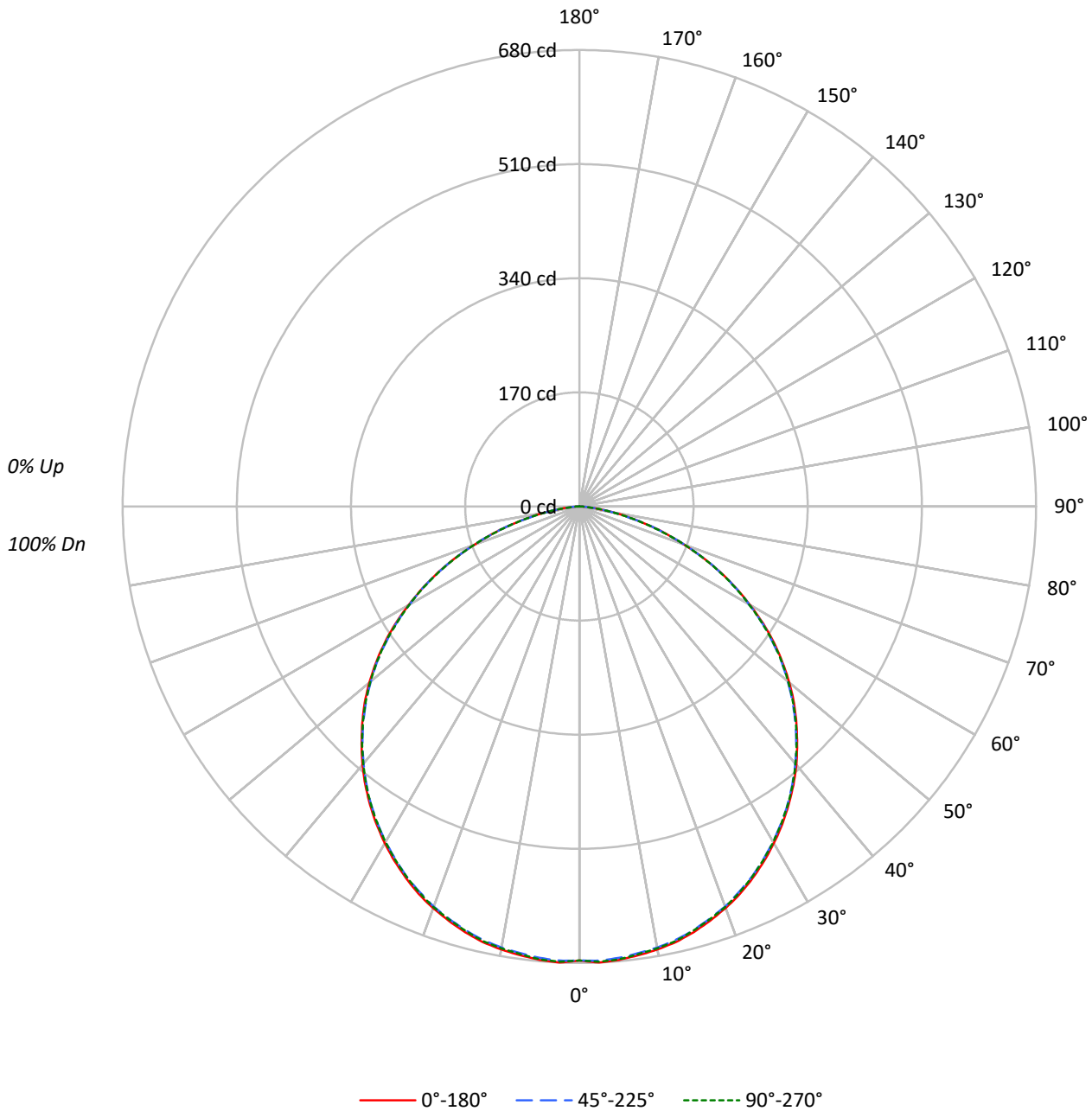
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1891.5 lumens
Efficiency: N/A
Efficacy: 127.8 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

TEST NUMBER: P973841
CATALOG NUMBER: FLR2-22-20HE-L835-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973841
 CATALOG NUMBER: FLR2-22-20HE-L835-CA125

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°	1820	1820	1820
5°	1831	1824	1829
10°	1831	1823	1826
15°	1830	1821	1824
20°	1823	1816	1818
25°	1814	1806	1807
30°	1800	1793	1794
35°	1784	1777	1779
40°	1766	1757	1758
45°	1739	1731	1735
50°	1709	1696	1700
55°	1660	1646	1652
60°	1579	1572	1572
65°	1473	1471	1466
70°	1305	1312	1308
75°	1099	1091	1081
80°	790	776	770
85°	414	414	401

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1739 cd/sqm



TEST NUMBER: P973841
 CATALOG NUMBER: FLR2-22-20HE-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.0	3.4
10°-20°	184.2	9.7
20°-30°	279.9	14.8
30°-40°	338.3	17.9
40°-50°	351.2	18.6
50°-60°	313.9	16.6
60°-70°	228.3	12.1
70°-80°	112.2	5.9
80°-90°	19.5	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°	528.1	27.9
0°-40°	866.4	45.8
0°-60°	1531.5	81.0
0°-90°	1891.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1891.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	678	670	675	673	677	64
15°	657	649	654	652	655	185
25°	611	604	608	607	609	282
35°	543	539	541	541	541	340
45°	457	455	455	456	456	353
55°	354	352	351	352	352	315
65°	231	232	231	231	230	228
75°	106	106	105	105	104	112
85°	13	14	13	13	13	20
90°	0	0	0	0	0	



TEST NUMBER: P973841
 CATALOG NUMBER: FLR2-22-20HE-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676.4	676.4	676.4	676.4	676.4
2.5°	680.1	672.2	677.2	674.3	678.9
5°	678.0	670.1	675.1	672.6	677.2
7.5°	674.3	666.3	671.3	668.8	672.6
10°	670.1	661.7	667.2	664.7	668.4
12.5°	664.7	656.7	661.7	659.6	663.0
15°	656.7	649.2	653.8	652.1	654.6
17.5°	647.1	639.6	644.2	642.9	645.0
20°	636.7	629.6	634.2	632.9	635.0
22.5°	625.0	617.5	621.6	620.8	622.5
25°	610.8	604.1	608.3	607.0	608.7
27.5°	595.7	589.5	592.8	592.8	593.6
30°	579.4	573.6	576.9	576.9	577.4
32.5°	561.9	557.3	559.4	559.8	559.8
35°	543.1	539.3	541.0	541.4	541.4
37.5°	523.5	519.7	521.0	521.8	521.8
40°	502.6	499.2	500.1	500.9	500.5
42.5°	480.0	477.5	477.9	478.8	478.8
45°	457.0	454.9	454.9	455.8	455.8
47.5°	433.6	431.6	430.7	431.6	431.6
50°	408.2	406.1	405.2	406.1	406.1
52.5°	381.4	379.3	379.3	379.3	379.7
55°	353.8	351.8	350.9	351.8	352.2
57.5°	324.6	323.8	322.5	322.9	321.7
60°	293.3	293.3	292.0	292.9	292.0
62.5°	262.8	263.6	262.4	262.4	261.5
65°	231.4	232.3	231.0	231.0	230.2
67.5°	199.3	200.5	198.9	198.9	198.0
70°	165.9	168.4	166.7	167.1	166.3
72.5°	135.8	137.0	135.4	135.4	134.5
75°	105.7	106.5	104.9	105.3	104.0
77.5°	76.0	77.3	75.6	76.0	75.6
80°	51.0	51.4	50.1	50.5	49.7
82.5°	29.7	30.1	29.7	29.2	28.8
85°	13.4	13.8	13.4	13.4	13.0
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)