

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: P973829

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

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973829  
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-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

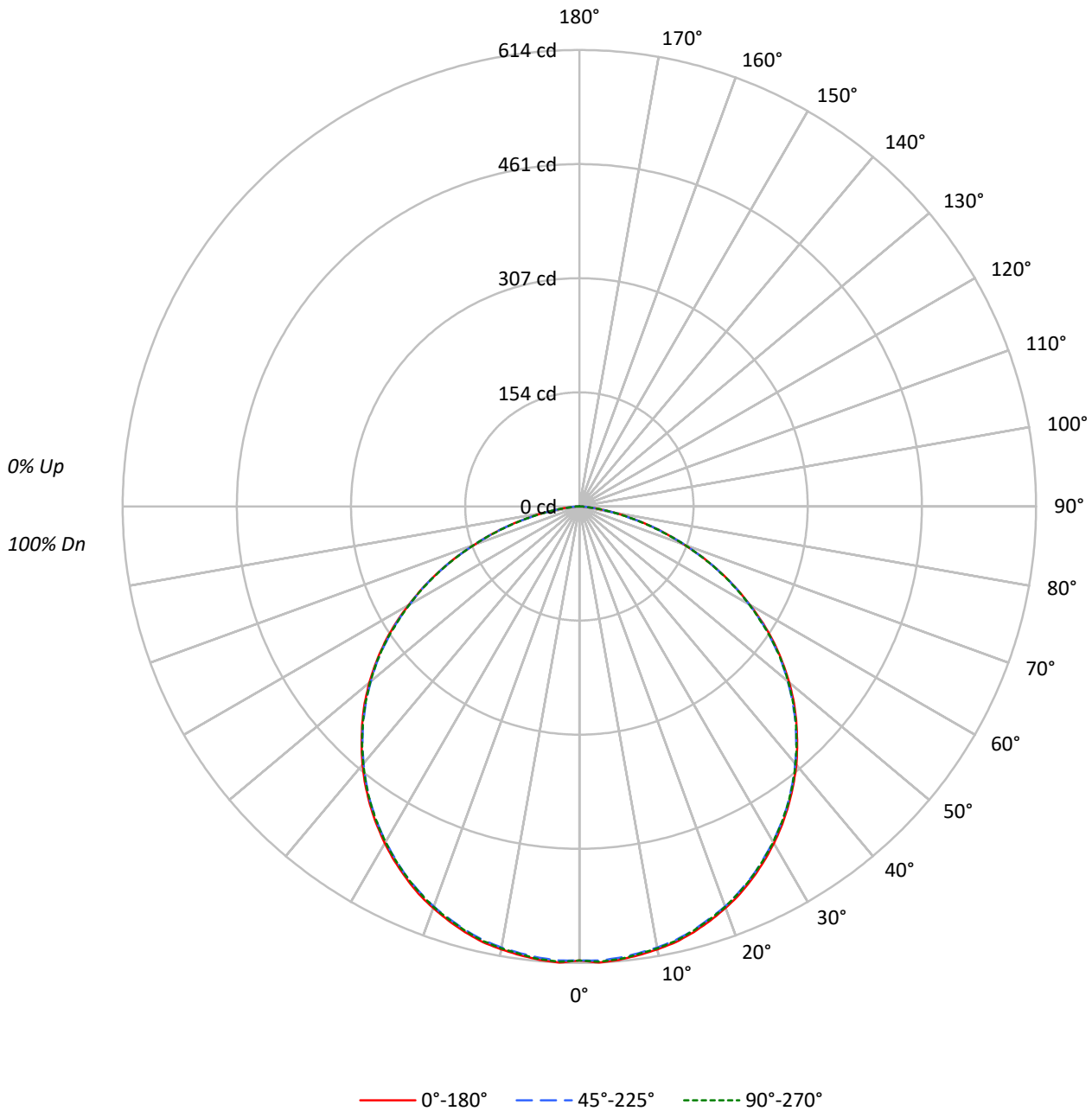
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1707.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	1643	1643	1643
5°	1654	1646	1652
10°	1653	1646	1649
15°	1652	1645	1647
20°	1646	1640	1642
25°	1637	1631	1632
30°	1626	1619	1620
35°	1611	1605	1606
40°	1594	1586	1587
45°	1571	1563	1566
50°	1543	1532	1535
55°	1499	1486	1492
60°	1425	1419	1419
65°	1331	1328	1323
70°	1178	1184	1181
75°	992	985	976
80°	713	702	696
85°	374	374	361

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1571 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.8	3.4
10°-20°	166.3	9.7
20°-30°	252.7	14.8
30°-40°	305.5	17.9
40°-50°	317.0	18.6
50°-60°	283.4	16.6
60°-70°	206.1	12.1
70°-80°	101.3	5.9
80°-90°	17.6	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°	476.8	27.9
0°-40°	782.3	45.8
0°-60°	1382.8	81.0
0°-90°	1707.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1707.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	612	605	610	607	611	58
15°	593	586	590	589	591	167
25°	552	545	549	548	550	254
35°	490	487	488	489	489	307
45°	413	411	411	412	412	318
55°	320	318	317	318	318	285
65°	209	210	209	209	208	206
75°	95	96	95	95	94	101
85°	12	12	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°	610.7	610.7	610.7	610.7	610.7
2.5°	614.1	606.9	611.4	608.8	612.9
5°	612.2	605.0	609.5	607.3	611.4
7.5°	608.8	601.6	606.2	603.9	607.3
10°	605.0	597.5	602.4	600.1	603.5
12.5°	600.1	593.0	597.5	595.6	598.6
15°	593.0	586.2	590.3	588.8	591.1
17.5°	584.3	577.5	581.6	580.5	582.4
20°	574.8	568.4	572.6	571.5	573.3
22.5°	564.3	557.5	561.3	560.5	562.0
25°	551.5	545.4	549.2	548.1	549.6
27.5°	537.9	532.2	535.2	535.2	536.0
30°	523.2	517.9	520.9	520.9	521.3
32.5°	507.3	503.2	505.1	505.4	505.4
35°	490.4	487.0	488.5	488.8	488.8
37.5°	472.6	469.2	470.4	471.1	471.1
40°	453.8	450.7	451.5	452.3	451.9
42.5°	433.4	431.1	431.5	432.3	432.3
45°	412.7	410.8	410.8	411.5	411.5
47.5°	391.5	389.6	388.9	389.6	389.6
50°	368.5	366.6	365.9	366.6	366.6
52.5°	344.4	342.5	342.5	342.5	342.9
55°	319.5	317.6	316.8	317.6	318.0
57.5°	293.1	292.3	291.2	291.6	290.4
60°	264.8	264.8	263.7	264.4	263.7
62.5°	237.3	238.0	236.9	236.9	236.1
65°	209.0	209.7	208.6	208.6	207.8
67.5°	179.9	181.1	179.5	179.5	178.8
70°	149.7	152.0	150.5	150.9	150.1
72.5°	122.6	123.7	122.2	122.2	121.5
75°	95.4	96.2	94.7	95.1	93.9
77.5°	68.6	69.8	68.3	68.6	68.3
80°	46.0	46.4	45.3	45.6	44.9
82.5°	26.8	27.2	26.8	26.4	26.0
85°	12.1	12.4	12.1	12.1	11.7
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)