

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: P973832

Luminaire Tested: FLR2-22-45HE-L835-CP375

Issue Date: 3/13/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P973832  
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: FLR2-22-45HE-L835-CP375  
Description: SHAPER SENSE CIRCLE  
  
Light Source:  
Ballast/Driver: -

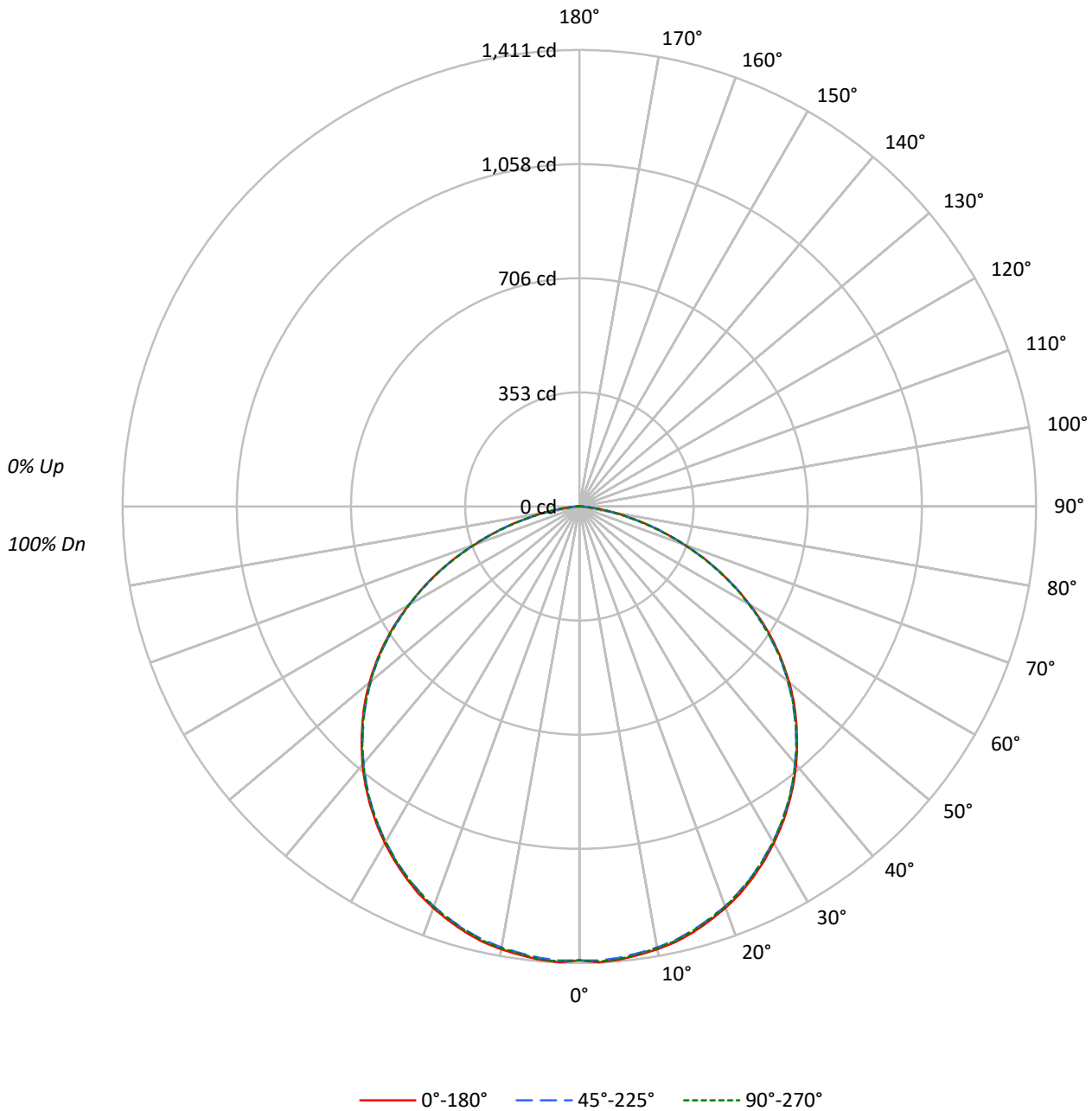
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3923.2 lumens  
Efficiency: N/A  
Efficacy: 108.4 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): 36.2  
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	0
RW	70	50	30	10	70	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°	3775	3775	3775
5°	3799	3783	3794
10°	3798	3781	3788
15°	3795	3778	3783
20°	3782	3767	3772
25°	3761	3746	3749
30°	3734	3718	3721
35°	3701	3686	3689
40°	3662	3644	3647
45°	3608	3591	3598
50°	3544	3519	3526
55°	3443	3415	3427
60°	3274	3260	3260
65°	3056	3051	3040
70°	2707	2720	2714
75°	2279	2261	2244
80°	1638	1612	1598
85°	855	855	831

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3608 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.8	3.4
10°-20°	382.0	9.7
20°-30°	580.5	14.8
30°-40°	701.7	17.9
40°-50°	728.3	18.6
50°-60°	651.1	16.6
60°-70°	473.4	12.1
70°-80°	232.8	5.9
80°-90°	40.4	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°	1095.4	27.9
0°-40°	1797.1	45.8
0°-60°	3176.6	81.0
0°-90°	3923.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3923.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1406	1390	1400	1395	1405	134
15°	1362	1347	1356	1353	1358	384
25°	1267	1253	1262	1259	1262	584
35°	1126	1119	1122	1123	1123	705
45°	948	944	944	945	945	731
55°	734	730	728	730	730	654
65°	480	482	479	479	477	473
75°	219	221	218	218	216	233
85°	28	29	28	28	27	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1402.9	1402.9	1402.9	1402.9	1402.9
2.5°	1410.7	1394.2	1404.6	1398.5	1408.1
5°	1406.3	1389.9	1400.3	1395.1	1404.6
7.5°	1398.5	1382.1	1392.5	1387.3	1395.1
10°	1389.9	1372.5	1383.8	1378.6	1386.4
12.5°	1378.6	1362.2	1372.5	1368.2	1375.1
15°	1362.2	1346.6	1356.1	1352.6	1357.8
17.5°	1342.2	1326.6	1336.2	1333.6	1337.9
20°	1320.6	1305.8	1315.4	1312.8	1317.1
22.5°	1296.3	1280.7	1289.4	1287.6	1291.1
25°	1266.8	1253.0	1261.6	1259.0	1262.5
27.5°	1235.6	1222.6	1229.6	1229.6	1231.3
30°	1201.8	1189.7	1196.6	1196.6	1197.5
32.5°	1165.5	1155.9	1160.3	1161.1	1161.1
35°	1126.5	1118.7	1122.1	1123.0	1123.0
37.5°	1085.7	1077.9	1080.5	1082.3	1082.3
40°	1042.4	1035.5	1037.2	1038.9	1038.1
42.5°	995.6	990.4	991.3	993.0	993.0
45°	948.0	943.6	943.6	945.4	945.4
47.5°	899.4	895.1	893.4	895.1	895.1
50°	846.6	842.2	840.5	842.2	842.2
52.5°	791.1	786.8	786.8	786.8	787.7
55°	733.9	729.6	727.9	729.6	730.5
57.5°	673.3	671.5	668.9	669.8	667.2
60°	608.3	608.3	605.7	607.4	605.7
62.5°	545.0	546.8	544.2	544.2	542.4
65°	480.0	481.8	479.2	479.2	477.4
67.5°	413.3	415.9	412.5	412.5	410.7
70°	344.0	349.2	345.7	346.6	344.9
72.5°	281.6	284.2	280.7	280.7	279.0
75°	219.2	221.0	217.5	218.4	215.8
77.5°	157.7	160.3	156.8	157.7	156.8
80°	105.7	106.6	104.0	104.8	103.1
82.5°	61.5	62.4	61.5	60.7	59.8
85°	27.7	28.6	27.7	27.7	26.9
87.5°	6.9	6.9	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)