

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: P974700

Luminaire Tested: FLR2-24-80HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-80HE-L835-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

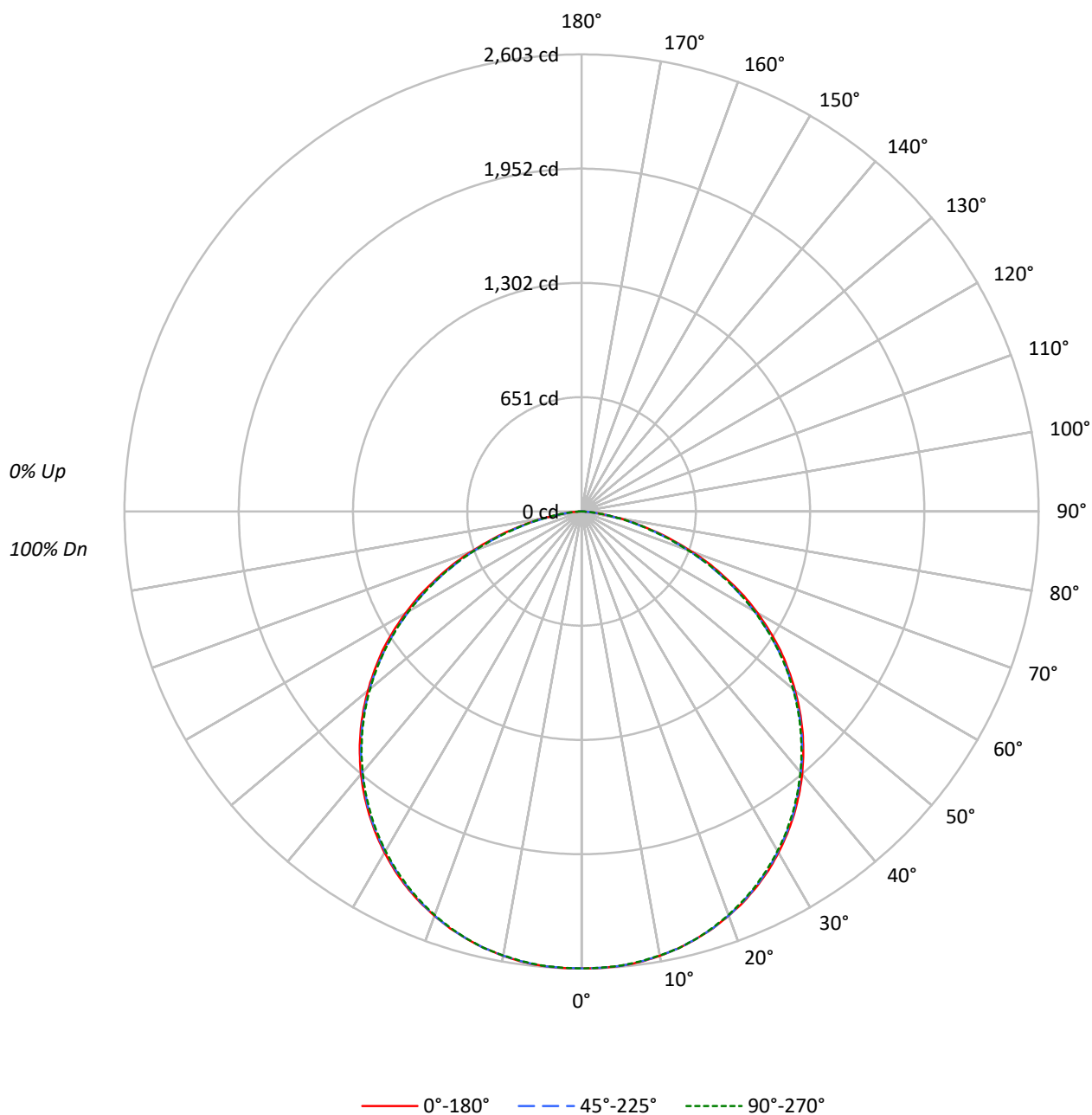
Lumens per Lamp: N/A
Luminaire Lumens: 7355.7 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3502	3502	3502
5°	3509	3509	3506
10°	3511	3510	3509
15°	3512	3511	3511
20°	3509	3507	3502
25°	3502	3495	3489
30°	3486	3476	3469
35°	3463	3454	3442
40°	3433	3412	3407
45°	3389	3369	3358
50°	3325	3300	3290
55°	3246	3200	3196
60°	3111	3056	3056
65°	2911	2842	2851
70°	2619	2539	2531
75°	2199	2112	2102
80°	1606	1526	1592
85°	908	837	851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.0	3.4
10°-20°	711.7	9.7
20°-30°	1085.1	14.8
30°-40°	1314.7	17.9
40°-50°	1365.6	18.6
50°-60°	1221.6	16.6
60°-70°	890.3	12.1
70°-80°	440.9	6.0
80°-90°	78.8	1.1
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°	2043.8	27.8
0°-40°	3358.5	45.7
0°-60°	5945.6	80.8
0°-90°	7355.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7355.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2603	2603	2603	2603	2603	
5°	2598	2599	2598	2598	2596	247
15°	2521	2520	2520	2522	2520	712
25°	2359	2356	2354	2353	2350	1087
35°	2109	2106	2103	2099	2096	1319
45°	1781	1777	1770	1767	1765	1372
55°	1384	1374	1364	1364	1362	1233
65°	914	907	893	896	896	906
75°	423	416	406	414	404	451
85°	59	54	54	55	55	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2602.6	2602.6	2602.6	2602.6	2602.6
2.5°	2602.6	2601.6	2601.6	2602.6	2600.7
5°	2597.9	2598.8	2597.9	2597.9	2596.0
7.5°	2587.6	2586.7	2585.8	2586.7	2583.9
10°	2569.9	2569.9	2569.0	2569.9	2568.0
12.5°	2548.4	2548.4	2548.4	2549.4	2548.4
15°	2521.3	2520.4	2520.4	2522.3	2520.4
17.5°	2489.6	2488.7	2488.7	2487.7	2485.9
20°	2450.4	2450.4	2449.4	2448.5	2445.7
22.5°	2408.3	2407.4	2404.6	2404.6	2400.9
25°	2358.9	2356.1	2354.2	2353.2	2350.4
27.5°	2304.7	2301.0	2298.2	2296.3	2293.5
30°	2244.0	2240.3	2237.5	2234.7	2232.8
32.5°	2178.6	2176.8	2172.1	2171.2	2167.4
35°	2108.6	2105.8	2103.0	2099.2	2095.5
37.5°	2033.9	2031.1	2024.5	2022.7	2019.9
40°	1954.5	1950.8	1942.4	1942.4	1939.6
42.5°	1869.5	1865.8	1860.2	1856.5	1854.6
45°	1780.8	1777.1	1770.5	1766.8	1764.9
47.5°	1686.5	1683.7	1676.2	1673.4	1670.6
50°	1588.4	1584.7	1576.3	1574.4	1571.6
52.5°	1485.7	1483.9	1472.6	1471.7	1468.9
55°	1383.9	1373.7	1364.3	1364.3	1362.5
57.5°	1271.9	1264.4	1252.3	1252.3	1250.4
60°	1156.1	1149.5	1135.5	1137.4	1135.5
62.5°	1043.1	1029.1	1016.0	1021.6	1016.9
65°	914.2	906.7	892.7	896.5	895.5
67.5°	796.6	782.5	769.5	776.9	773.2
70°	665.8	658.3	645.3	652.7	643.4
72.5°	542.6	536.0	522.9	531.3	522.0
75°	423.0	416.5	406.2	413.7	404.3
77.5°	310.0	305.4	296.0	303.5	305.4
80°	207.3	201.7	197.0	203.6	205.4
82.5°	121.4	117.7	115.8	116.7	121.4
85°	58.8	54.2	54.2	55.1	55.1
87.5°	15.9	14.0	15.9	16.8	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)