

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: P974713

Luminaire Tested: FLR2-24-100HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974713
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: FLR2-24-100HE-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

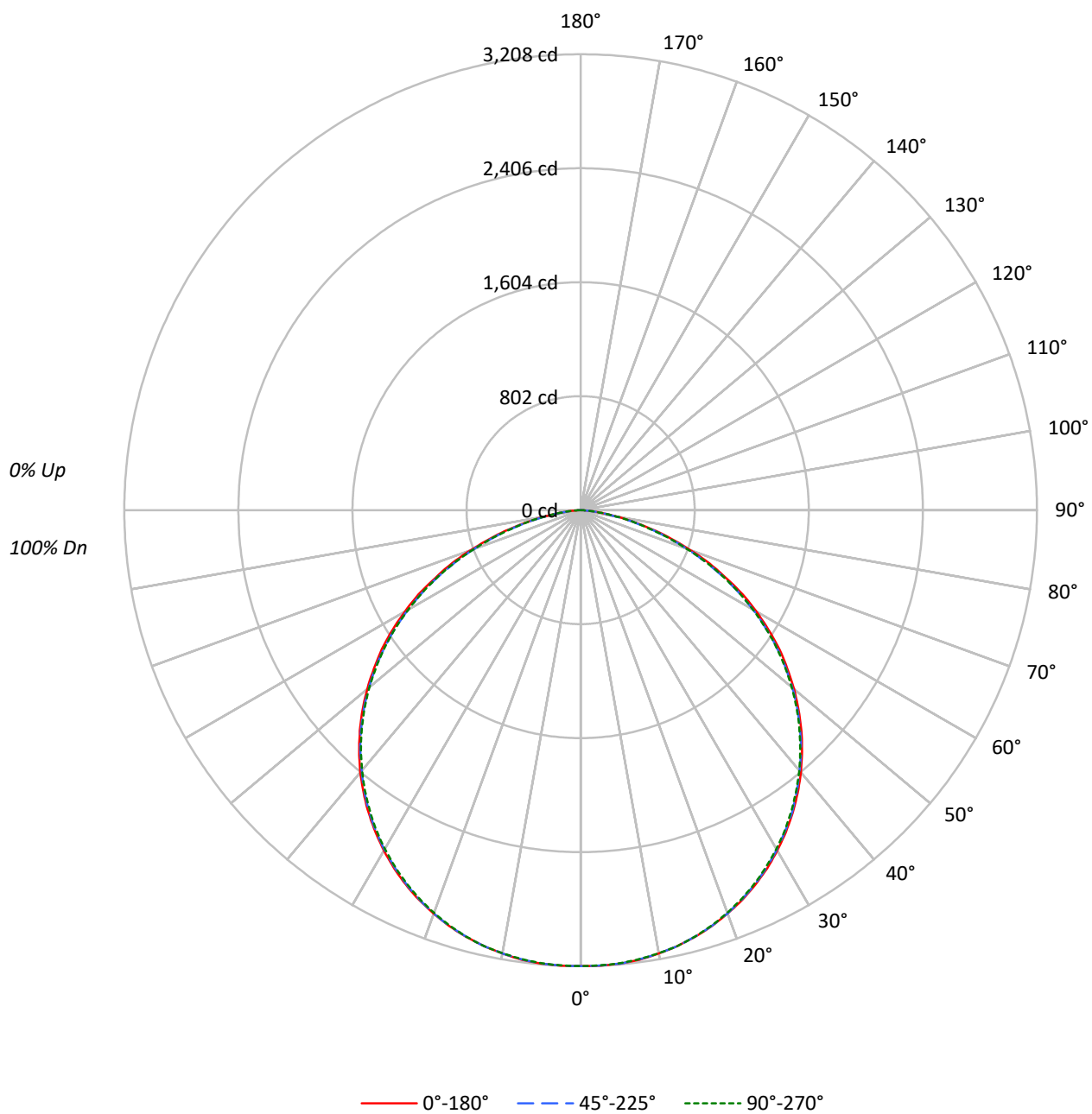
Lumens per Lamp: N/A
Luminaire Lumens: 9067.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.6
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

TEST NUMBER: P974713

CATALOG NUMBER: FLR2-24-100HE-L835-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974713

CATALOG NUMBER: FLR2-24-100HE-L835-CP375

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°	4316	4316	4316
5°	4325	4325	4322
10°	4328	4326	4325
15°	4329	4328	4328
20°	4325	4323	4317
25°	4317	4308	4301
30°	4298	4285	4276
35°	4269	4258	4243
40°	4232	4205	4199
45°	4177	4153	4140
50°	4099	4067	4055
55°	4002	3945	3940
60°	3835	3767	3767
65°	3588	3503	3514
70°	3229	3129	3120
75°	2711	2603	2591
80°	1980	1882	1962
85°	1119	1031	1048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4177 cd/sqm

TEST NUMBER: P974713

CATALOG NUMBER: FLR2-24-100HE-L835-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	3.4
10°-20°	877.3	9.7
20°-30°	1337.5	14.8
30°-40°	1620.5	17.9
40°-50°	1683.3	18.6
50°-60°	1505.8	16.6
60°-70°	1097.5	12.1
70°-80°	543.5	6.0
80°-90°	97.1	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°	2519.3	27.8
0°-40°	4139.8	45.7
0°-60°	7328.9	80.8
0°-90°	9067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3208	3208	3208	3208	3208	
5°	3202	3204	3202	3202	3200	305
15°	3108	3107	3107	3109	3107	877
25°	2908	2904	2902	2901	2897	1340
35°	2599	2596	2592	2588	2583	1626
45°	2195	2190	2182	2178	2176	1692
55°	1706	1693	1682	1682	1679	1520
65°	1127	1118	1100	1105	1104	1117
75°	521	513	501	510	498	556
85°	72	67	67	68	68	100
90°	0	0	0	0	0	

TEST NUMBER: P974713

CATALOG NUMBER: FLR2-24-100HE-L835-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	3208.1	3206.9	3206.9	3208.1	3205.8
5°	3202.3	3203.5	3202.3	3202.3	3200.0
7.5°	3189.7	3188.5	3187.4	3188.5	3185.0
10°	3167.8	3167.8	3166.6	3167.8	3165.5
12.5°	3141.3	3141.3	3141.3	3142.5	3141.3
15°	3107.9	3106.8	3106.8	3109.1	3106.8
17.5°	3068.8	3067.6	3067.6	3066.5	3064.2
20°	3020.4	3020.4	3019.3	3018.1	3014.7
22.5°	2968.6	2967.5	2964.0	2964.0	2959.4
25°	2907.6	2904.2	2901.9	2900.7	2897.3
27.5°	2840.9	2836.3	2832.8	2830.5	2827.1
30°	2766.1	2761.4	2758.0	2754.5	2752.2
32.5°	2685.5	2683.2	2677.4	2676.3	2671.7
35°	2599.1	2595.7	2592.2	2587.6	2583.0
37.5°	2507.1	2503.6	2495.5	2493.2	2489.8
40°	2409.2	2404.6	2394.3	2394.3	2390.8
42.5°	2304.5	2299.9	2293.0	2288.4	2286.1
45°	2195.1	2190.5	2182.5	2177.9	2175.5
47.5°	2078.9	2075.4	2066.2	2062.7	2059.3
50°	1958.0	1953.4	1943.0	1940.7	1937.3
52.5°	1831.4	1829.1	1815.3	1814.1	1810.7
55°	1705.9	1693.2	1681.7	1681.7	1679.4
57.5°	1567.8	1558.6	1543.6	1543.6	1541.3
60°	1425.0	1417.0	1399.7	1402.0	1399.7
62.5°	1285.8	1268.5	1252.4	1259.3	1253.5
65°	1126.9	1117.7	1100.4	1105.0	1103.9
67.5°	981.9	964.6	948.5	957.7	953.1
70°	820.7	811.5	795.4	804.6	793.1
72.5°	668.8	660.7	644.6	655.0	643.5
75°	521.4	513.4	500.7	509.9	498.4
77.5°	382.2	376.4	364.9	374.1	376.4
80°	255.5	248.6	242.9	250.9	253.2
82.5°	149.6	145.0	142.7	143.9	149.6
85°	72.5	66.8	66.8	67.9	67.9
87.5°	19.6	17.3	19.6	20.7	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)