

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: P974865

Luminaire Tested: FLR2-24-80HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974865
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

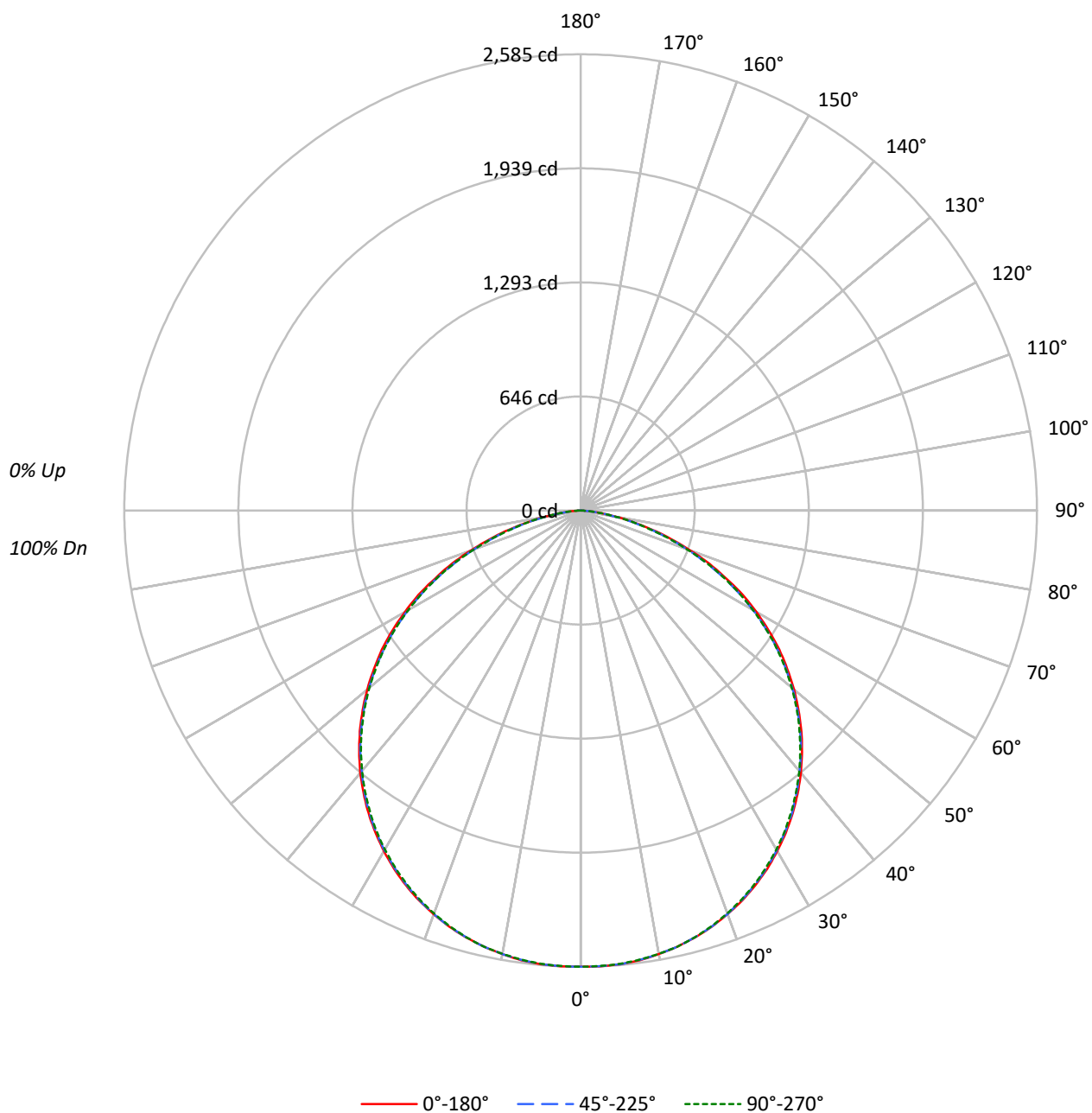
Lumens per Lamp: N/A
Luminaire Lumens: 7306.2 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3478	3478	3478
5°	3485	3485	3483
10°	3487	3486	3485
15°	3489	3487	3487
20°	3485	3484	3478
25°	3478	3471	3466
30°	3463	3453	3446
35°	3440	3431	3419
40°	3410	3389	3384
45°	3366	3346	3336
50°	3303	3277	3268
55°	3225	3179	3175
60°	3090	3035	3035
65°	2891	2823	2832
70°	2602	2521	2514
75°	2184	2098	2088
80°	1595	1516	1581
85°	902	831	844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3366 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	3.4
10°-20°	706.9	9.7
20°-30°	1077.8	14.8
30°-40°	1305.8	17.9
40°-50°	1356.4	18.6
50°-60°	1213.4	16.6
60°-70°	884.3	12.1
70°-80°	438.0	6.0
80°-90°	78.3	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°	2030.0	27.8
0°-40°	3335.8	45.7
0°-60°	5905.6	80.8
0°-90°	7306.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7306.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2585	2585	2585	2585	2585	
5°	2580	2581	2580	2580	2579	245
15°	2504	2503	2503	2505	2503	707
25°	2343	2340	2338	2337	2335	1080
35°	2094	2092	2089	2085	2081	1310
45°	1769	1765	1759	1755	1753	1363
55°	1375	1364	1355	1355	1353	1225
65°	908	901	887	890	890	900
75°	420	414	404	411	402	448
85°	58	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°	2585.1	2585.1	2585.1	2585.1	2585.1
2.5°	2585.1	2584.1	2584.1	2585.1	2583.2
5°	2580.4	2581.4	2580.4	2580.4	2578.6
7.5°	2570.2	2569.3	2568.4	2569.3	2566.5
10°	2552.6	2552.6	2551.7	2552.6	2550.7
12.5°	2531.3	2531.3	2531.3	2532.2	2531.3
15°	2504.4	2503.4	2503.4	2505.3	2503.4
17.5°	2472.8	2471.9	2471.9	2471.0	2469.1
20°	2433.9	2433.9	2433.0	2432.0	2429.2
22.5°	2392.1	2391.2	2388.4	2388.4	2384.7
25°	2343.0	2340.2	2338.3	2337.4	2334.6
27.5°	2289.2	2285.5	2282.7	2280.8	2278.1
30°	2228.9	2225.2	2222.4	2219.6	2217.8
32.5°	2164.0	2162.1	2157.5	2156.5	2152.8
35°	2094.4	2091.6	2088.8	2085.1	2081.4
37.5°	2020.2	2017.4	2010.9	2009.1	2006.3
40°	1941.4	1937.6	1929.3	1929.3	1926.5
42.5°	1856.9	1853.2	1847.7	1844.0	1842.1
45°	1768.8	1765.1	1758.6	1754.9	1753.1
47.5°	1675.1	1672.4	1664.9	1662.2	1659.4
50°	1577.8	1574.0	1565.7	1563.8	1561.1
52.5°	1475.7	1473.9	1462.7	1461.8	1459.0
55°	1374.6	1364.4	1355.1	1355.1	1353.3
57.5°	1263.3	1255.9	1243.8	1243.8	1242.0
60°	1148.3	1141.8	1127.9	1129.7	1127.9
62.5°	1036.1	1022.2	1009.2	1014.7	1010.1
65°	908.1	900.6	886.7	890.4	889.5
67.5°	791.2	777.3	764.3	771.7	768.0
70°	661.3	653.9	640.9	648.4	639.1
72.5°	538.9	532.4	519.4	527.8	518.5
75°	420.2	413.7	403.5	410.9	401.6
77.5°	307.9	303.3	294.0	301.5	303.3
80°	205.9	200.3	195.7	202.2	204.1
82.5°	120.6	116.9	115.0	115.9	120.6
85°	58.4	53.8	53.8	54.7	54.7
87.5°	15.8	13.9	15.8	16.7	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)