

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: P974885

Luminaire Tested: FLR2-24-65HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974885
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: FLR2-24-65HE-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

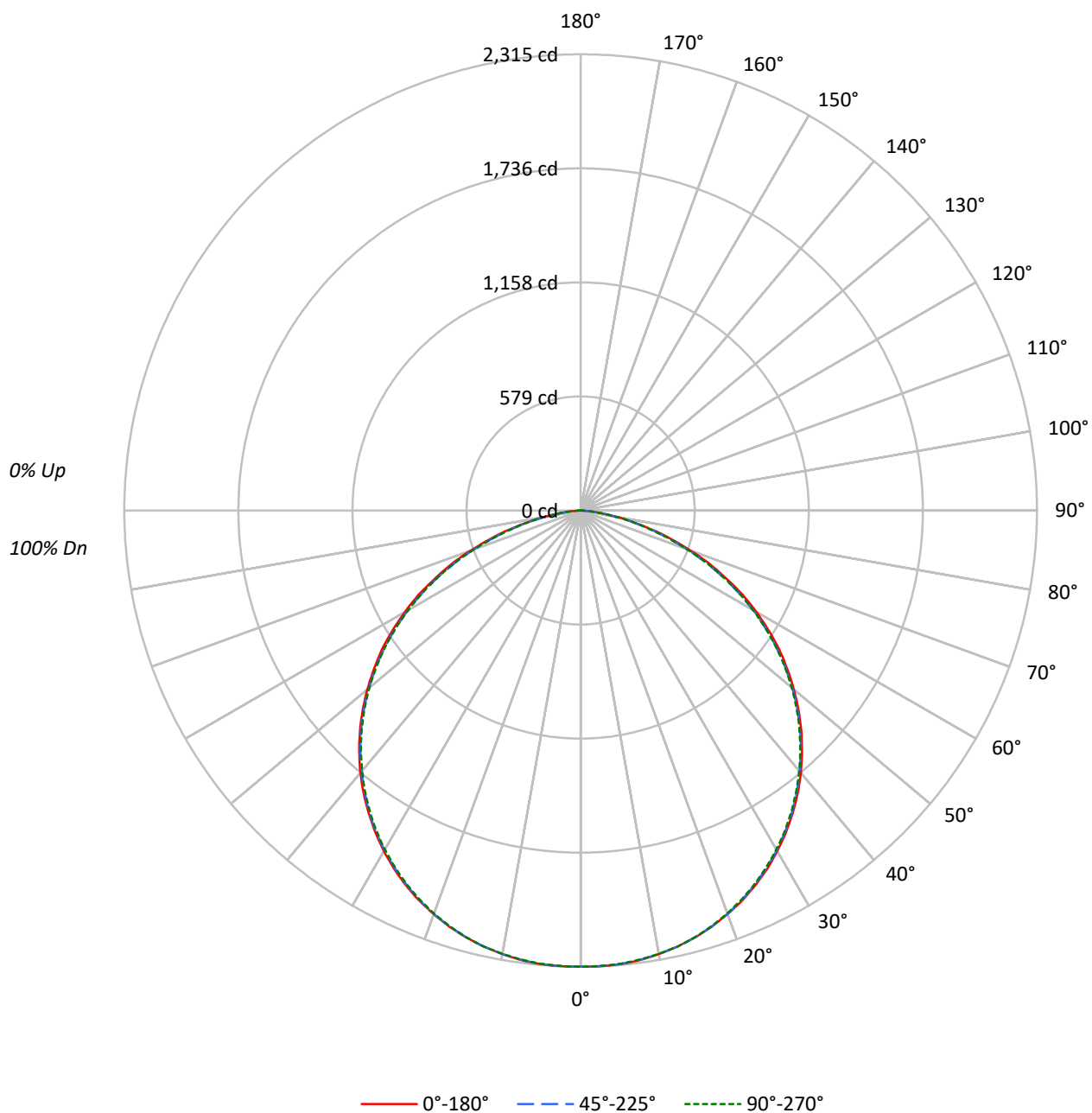
Lumens per Lamp: N/A
Luminaire Lumens: 6542.4 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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: P974885

CATALOG NUMBER: FLR2-24-65HE-L840-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974885

CATALOG NUMBER: FLR2-24-65HE-L840-CA125

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°	3115	3115	3115
5°	3121	3121	3119
10°	3123	3122	3121
15°	3124	3123	3123
20°	3121	3119	3115
25°	3115	3109	3104
30°	3101	3092	3085
35°	3080	3072	3061
40°	3053	3034	3030
45°	3014	2997	2987
50°	2957	2935	2926
55°	2887	2847	2843
60°	2767	2718	2718
65°	2589	2528	2536
70°	2330	2258	2251
75°	1956	1878	1869
80°	1429	1358	1416
85°	807	744	756

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3014 cd/sqm

TEST NUMBER: P974885

CATALOG NUMBER: FLR2-24-65HE-L840-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.4
10°-20°	633.0	9.7
20°-30°	965.1	14.8
30°-40°	1169.3	17.9
40°-50°	1214.6	18.6
50°-60°	1086.5	16.6
60°-70°	791.9	12.1
70°-80°	392.2	6.0
80°-90°	70.1	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°	1817.8	27.8
0°-40°	2987.1	45.7
0°-60°	5288.2	80.8
0°-90°	6542.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6542.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2315	2315	2315	2315	2315	
5°	2311	2312	2311	2311	2309	220
15°	2243	2242	2242	2243	2242	633
25°	2098	2096	2094	2093	2091	967
35°	1875	1873	1870	1867	1864	1173
45°	1584	1581	1575	1571	1570	1221
55°	1231	1222	1214	1214	1212	1097
65°	813	806	794	797	796	806
75°	376	370	361	368	360	401
85°	52	48	48	49	49	72
90°	0	0	0	0	0	

TEST NUMBER: P974885

CATALOG NUMBER: FLR2-24-65HE-L840-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2314.8	2314.8	2314.8	2314.8	2314.8
2.5°	2314.8	2314.0	2314.0	2314.8	2313.2
5°	2310.7	2311.5	2310.7	2310.7	2309.0
7.5°	2301.5	2300.7	2299.9	2300.7	2298.2
10°	2285.7	2285.7	2284.9	2285.7	2284.1
12.5°	2266.6	2266.6	2266.6	2267.5	2266.6
15°	2242.6	2241.7	2241.7	2243.4	2241.7
17.5°	2214.3	2213.5	2213.5	2212.7	2211.0
20°	2179.4	2179.4	2178.6	2177.8	2175.3
22.5°	2142.1	2141.2	2138.7	2138.7	2135.4
25°	2098.0	2095.5	2093.9	2093.0	2090.6
27.5°	2049.9	2046.5	2044.0	2042.4	2039.9
30°	1995.9	1992.5	1990.1	1987.6	1985.9
32.5°	1937.7	1936.1	1931.9	1931.1	1927.8
35°	1875.4	1872.9	1870.5	1867.1	1863.8
37.5°	1809.0	1806.5	1800.7	1799.0	1796.5
40°	1738.4	1735.1	1727.6	1727.6	1725.1
42.5°	1662.8	1659.5	1654.5	1651.2	1649.5
45°	1583.9	1580.6	1574.8	1571.4	1569.8
47.5°	1500.0	1497.5	1490.9	1488.4	1485.9
50°	1412.8	1409.5	1402.0	1400.3	1397.9
52.5°	1321.4	1319.8	1309.8	1309.0	1306.5
55°	1230.9	1221.8	1213.5	1213.5	1211.8
57.5°	1131.2	1124.6	1113.8	1113.8	1112.1
60°	1028.3	1022.4	1010.0	1011.6	1010.0
62.5°	927.8	915.3	903.7	908.6	904.5
65°	813.1	806.5	794.0	797.4	796.5
67.5°	708.5	696.0	684.4	691.0	687.7
70°	592.2	585.6	573.9	580.6	572.3
72.5°	482.6	476.7	465.1	472.6	464.3
75°	376.3	370.4	361.3	367.9	359.6
77.5°	275.8	271.6	263.3	269.9	271.6
80°	184.4	179.4	175.3	181.1	182.7
82.5°	108.0	104.7	103.0	103.8	108.0
85°	52.3	48.2	48.2	49.0	49.0
87.5°	14.1	12.5	14.1	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)