

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: P974808

Luminaire Tested: FLR2-24-65HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974808
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-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

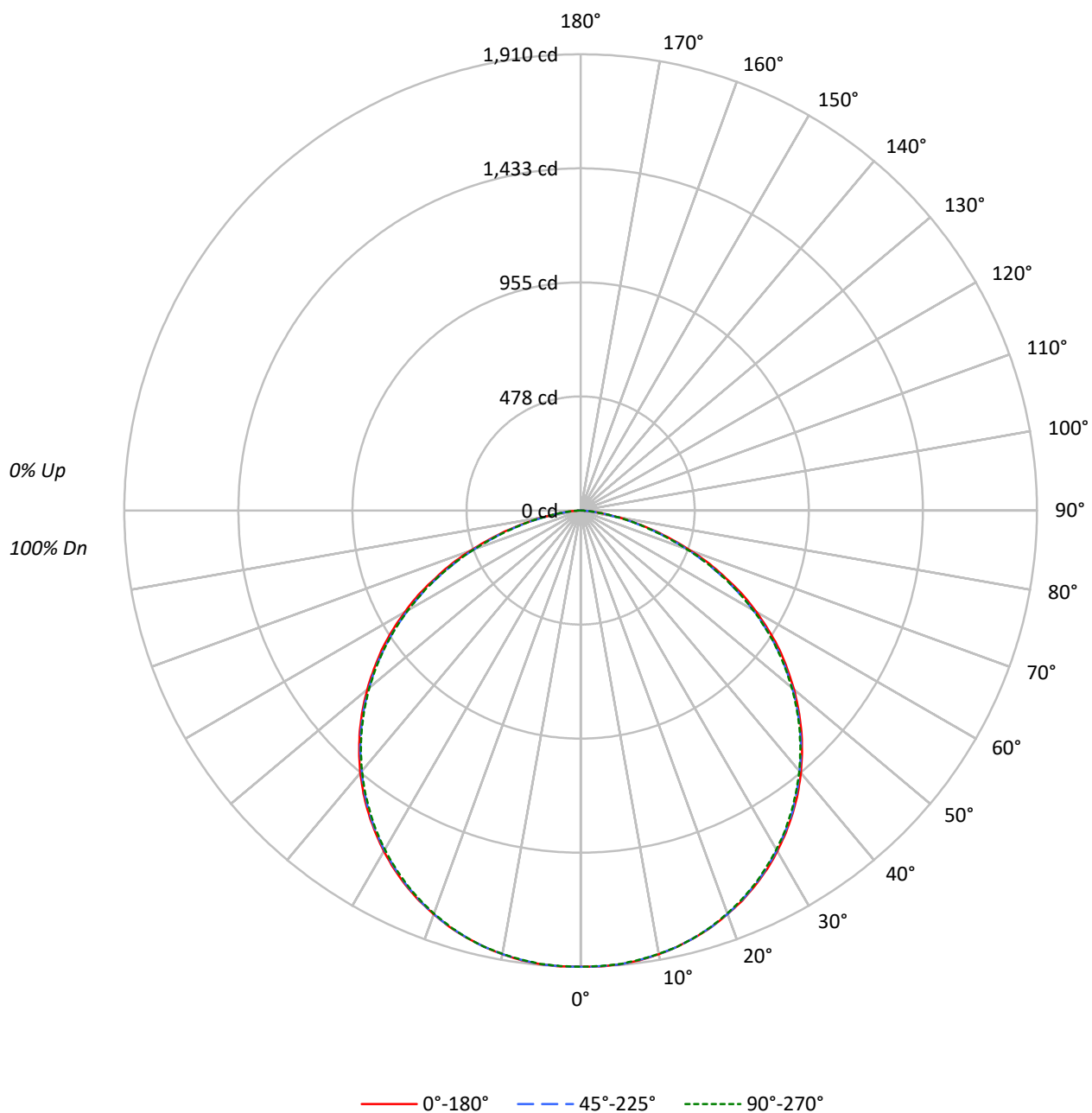
Lumens per Lamp: N/A
Luminaire Lumens: 5399.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P974808

CATALOG NUMBER: FLR2-24-65HE-L935-CA125

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°	2570	2570	2570
5°	2576	2576	2574
10°	2577	2576	2575
15°	2578	2577	2577
20°	2575	2574	2570
25°	2570	2565	2561
30°	2559	2552	2546
35°	2542	2535	2526
40°	2520	2504	2500
45°	2487	2473	2465
50°	2440	2422	2415
55°	2383	2349	2346
60°	2284	2243	2243
65°	2136	2086	2093
70°	1923	1863	1858
75°	1614	1550	1543
80°	1179	1120	1168
85°	667	614	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2487 cd/sqm

TEST NUMBER: P974808

CATALOG NUMBER: FLR2-24-65HE-L935-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	3.4
10°-20°	522.4	9.7
20°-30°	796.4	14.8
30°-40°	964.9	17.9
40°-50°	1002.3	18.6
50°-60°	896.7	16.6
60°-70°	653.5	12.1
70°-80°	323.6	6.0
80°-90°	57.9	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°	1500.1	27.8
0°-40°	2465.1	45.7
0°-60°	4364.1	80.8
0°-90°	5399.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1910	1910	1910	1910	1910	
5°	1907	1908	1907	1907	1906	181
15°	1851	1850	1850	1851	1850	523
25°	1731	1729	1728	1727	1725	798
35°	1548	1546	1544	1541	1538	968
45°	1307	1304	1300	1297	1296	1007
55°	1016	1008	1001	1001	1000	905
65°	671	666	655	658	657	665
75°	310	306	298	304	297	331
85°	43	40	40	40	40	60
90°	0	0	0	0	0	

TEST NUMBER: P974808

CATALOG NUMBER: FLR2-24-65HE-L935-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1910.3	1910.3	1910.3	1910.3	1910.3
2.5°	1910.3	1909.6	1909.6	1910.3	1908.9
5°	1906.9	1907.5	1906.9	1906.9	1905.5
7.5°	1899.3	1898.6	1897.9	1898.6	1896.6
10°	1886.3	1886.3	1885.6	1886.3	1884.9
12.5°	1870.5	1870.5	1870.5	1871.2	1870.5
15°	1850.6	1850.0	1850.0	1851.3	1850.0
17.5°	1827.3	1826.7	1826.7	1826.0	1824.6
20°	1798.6	1798.6	1797.9	1797.2	1795.1
22.5°	1767.7	1767.0	1765.0	1765.0	1762.2
25°	1731.4	1729.3	1728.0	1727.3	1725.2
27.5°	1691.6	1688.9	1686.8	1685.5	1683.4
30°	1647.1	1644.3	1642.3	1640.2	1638.9
32.5°	1599.1	1597.7	1594.3	1593.6	1590.9
35°	1547.7	1545.6	1543.6	1540.8	1538.1
37.5°	1492.9	1490.8	1486.0	1484.6	1482.6
40°	1434.6	1431.9	1425.7	1425.7	1423.6
42.5°	1372.2	1369.5	1365.4	1362.6	1361.3
45°	1307.1	1304.4	1299.6	1296.8	1295.5
47.5°	1237.9	1235.8	1230.3	1228.3	1226.2
50°	1165.9	1163.2	1157.0	1155.6	1153.6
52.5°	1090.5	1089.1	1080.9	1080.2	1078.2
55°	1015.8	1008.3	1001.4	1001.4	1000.0
57.5°	933.5	928.1	919.2	919.2	917.8
60°	848.6	843.8	833.5	834.8	833.5
62.5°	765.6	755.3	745.7	749.9	746.4
65°	671.0	665.5	655.3	658.0	657.3
67.5°	584.7	574.4	564.8	570.3	567.5
70°	488.7	483.2	473.6	479.1	472.3
72.5°	398.2	393.4	383.8	390.0	383.2
75°	310.5	305.7	298.2	303.6	296.8
77.5°	227.6	224.1	217.3	222.8	224.1
80°	152.2	148.1	144.6	149.4	150.8
82.5°	89.1	86.4	85.0	85.7	89.1
85°	43.2	39.8	39.8	40.4	40.4
87.5°	11.7	10.3	11.7	12.3	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)