

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: P974775

Luminaire Tested: FLR2-24-65HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974775
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

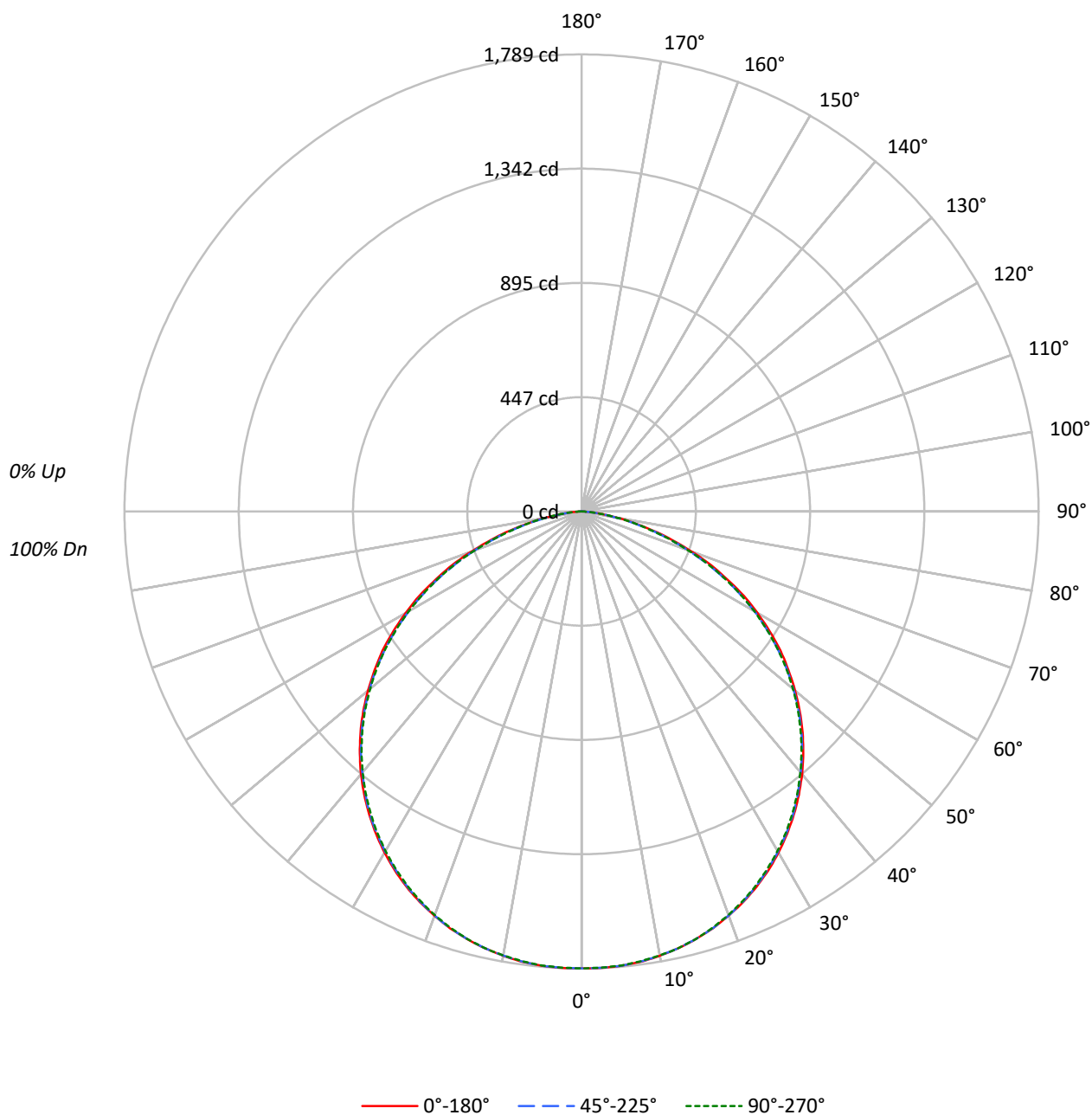
Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P974775

CATALOG NUMBER: FLR2-24-65HE-L935-CP250

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°	2407	2407	2407
5°	2411	2411	2410
10°	2413	2412	2411
15°	2414	2413	2413
20°	2411	2410	2406
25°	2407	2402	2398
30°	2396	2389	2384
35°	2380	2374	2365
40°	2359	2344	2341
45°	2329	2315	2308
50°	2285	2268	2261
55°	2231	2199	2196
60°	2138	2100	2100
65°	2000	1953	1959
70°	1800	1744	1740
75°	1511	1451	1445
80°	1104	1049	1094
85°	624	574	585

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2329 cd/sqm

TEST NUMBER: P974775

CATALOG NUMBER: FLR2-24-65HE-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	3.4
10°-20°	489.1	9.7
20°-30°	745.7	14.8
30°-40°	903.5	17.9
40°-50°	938.5	18.6
50°-60°	839.5	16.6
60°-70°	611.8	12.1
70°-80°	303.0	6.0
80°-90°	54.2	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°	1404.5	27.8
0°-40°	2308.0	45.7
0°-60°	4086.0	80.8
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1789	1789	1789	1789	1789	
5°	1785	1786	1785	1785	1784	170
15°	1733	1732	1732	1733	1732	489
25°	1621	1619	1618	1617	1615	747
35°	1449	1447	1445	1443	1440	906
45°	1224	1221	1217	1214	1213	943
55°	951	944	938	938	936	847
65°	628	623	614	616	615	623
75°	291	286	279	284	278	310
85°	40	37	37	38	38	56
90°	0	0	0	0	0	

TEST NUMBER: P974775

CATALOG NUMBER: FLR2-24-65HE-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	1788.6	1787.9	1787.9	1788.6	1787.3
5°	1785.3	1786.0	1785.3	1785.3	1784.1
7.5°	1778.3	1777.6	1777.0	1777.6	1775.7
10°	1766.1	1766.1	1765.4	1766.1	1764.8
12.5°	1751.3	1751.3	1751.3	1752.0	1751.3
15°	1732.7	1732.1	1732.1	1733.4	1732.1
17.5°	1710.9	1710.3	1710.3	1709.6	1708.3
20°	1683.9	1683.9	1683.3	1682.7	1680.7
22.5°	1655.1	1654.4	1652.5	1652.5	1649.9
25°	1621.1	1619.1	1617.8	1617.2	1615.3
27.5°	1583.8	1581.3	1579.3	1578.1	1576.1
30°	1542.1	1539.6	1537.6	1535.7	1534.4
32.5°	1497.2	1495.9	1492.7	1492.1	1489.5
35°	1449.1	1447.1	1445.2	1442.7	1440.1
37.5°	1397.7	1395.8	1391.3	1390.0	1388.1
40°	1343.2	1340.6	1334.8	1334.8	1332.9
42.5°	1284.8	1282.2	1278.4	1275.8	1274.5
45°	1223.8	1221.2	1216.8	1214.2	1212.9
47.5°	1159.0	1157.1	1151.9	1150.0	1148.1
50°	1091.6	1089.0	1083.3	1082.0	1080.1
52.5°	1021.0	1019.7	1012.0	1011.4	1009.5
55°	951.1	944.0	937.6	937.6	936.3
57.5°	874.1	868.9	860.6	860.6	859.3
60°	794.5	790.0	780.4	781.6	780.4
62.5°	716.8	707.2	698.2	702.1	698.9
65°	628.3	623.1	613.5	616.1	615.4
67.5°	547.4	537.8	528.8	533.9	531.4
70°	457.6	452.4	443.4	448.6	442.2
72.5°	372.9	368.4	359.4	365.2	358.7
75°	290.7	286.2	279.2	284.3	277.9
77.5°	213.1	209.9	203.4	208.6	209.9
80°	142.5	138.6	135.4	139.9	141.2
82.5°	83.4	80.9	79.6	80.2	83.4
85°	40.4	37.2	37.2	37.9	37.9
87.5°	10.9	9.6	10.9	11.6	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)