

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: P974773

Luminaire Tested: FLR2-24-45HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974773
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: FLR2-24-45HE-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

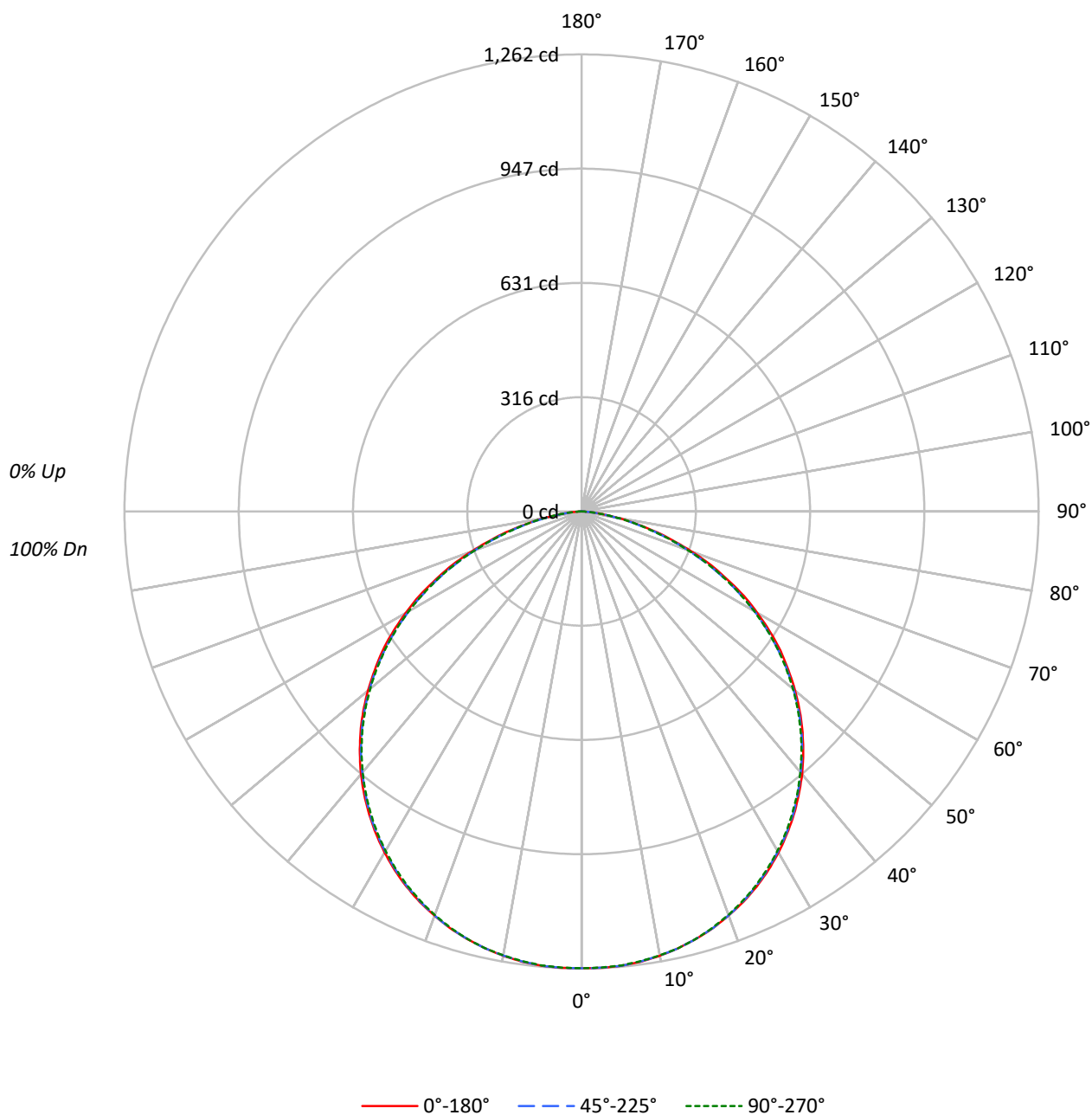
Lumens per Lamp: N/A
Luminaire Lumens: 3565.4 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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: P974773

CATALOG NUMBER: FLR2-24-45HE-L935-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P974773

CATALOG NUMBER: FLR2-24-45HE-L935-CP250

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°	1697	1697	1697
5°	1701	1701	1699
10°	1702	1701	1701
15°	1702	1702	1702
20°	1701	1700	1697
25°	1697	1694	1691
30°	1690	1685	1682
35°	1679	1674	1668
40°	1664	1654	1651
45°	1643	1633	1628
50°	1612	1599	1595
55°	1574	1551	1549
60°	1508	1481	1481
65°	1411	1378	1382
70°	1269	1231	1227
75°	1066	1024	1019
80°	779	740	772
85°	440	406	412

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1643 cd/sqm

TEST NUMBER: P974773

CATALOG NUMBER: FLR2-24-45HE-L935-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	3.4
10°-20°	345.0	9.7
20°-30°	525.9	14.8
30°-40°	637.2	17.9
40°-50°	661.9	18.6
50°-60°	592.1	16.6
60°-70°	431.6	12.1
70°-80°	213.7	6.0
80°-90°	38.2	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°	990.6	27.8
0°-40°	1627.9	45.7
0°-60°	2881.9	80.8
0°-90°	3565.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3565.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1259	1260	1259	1259	1258	120
15°	1222	1222	1222	1223	1222	345
25°	1143	1142	1141	1141	1139	527
35°	1022	1021	1019	1018	1016	639
45°	863	861	858	856	856	665
55°	671	666	661	661	660	598
65°	443	440	433	434	434	439
75°	205	202	197	200	196	219
85°	28	26	26	27	27	39
90°	0	0	0	0	0	

TEST NUMBER: P974773

CATALOG NUMBER: FLR2-24-45HE-L935-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.5	1261.5	1261.5	1261.5	1261.5
2.5°	1261.5	1261.0	1261.0	1261.5	1260.6
5°	1259.2	1259.7	1259.2	1259.2	1258.3
7.5°	1254.3	1253.8	1253.3	1253.8	1252.4
10°	1245.7	1245.7	1245.2	1245.7	1244.7
12.5°	1235.2	1235.2	1235.2	1235.7	1235.2
15°	1222.1	1221.7	1221.7	1222.6	1221.7
17.5°	1206.7	1206.3	1206.3	1205.8	1204.9
20°	1187.7	1187.7	1187.3	1186.8	1185.5
22.5°	1167.3	1166.9	1165.5	1165.5	1163.7
25°	1143.4	1142.0	1141.1	1140.6	1139.3
27.5°	1117.1	1115.3	1113.9	1113.0	1111.7
30°	1087.7	1085.9	1084.5	1083.2	1082.3
32.5°	1056.0	1055.1	1052.8	1052.4	1050.6
35°	1022.1	1020.7	1019.3	1017.5	1015.7
37.5°	985.8	984.5	981.3	980.4	979.1
40°	947.4	945.6	941.5	941.5	940.1
42.5°	906.2	904.4	901.7	899.8	898.9
45°	863.2	861.4	858.2	856.4	855.5
47.5°	817.5	816.1	812.5	811.1	809.8
50°	769.9	768.1	764.0	763.1	761.8
52.5°	720.1	719.2	713.8	713.4	712.0
55°	670.8	665.8	661.3	661.3	660.4
57.5°	616.5	612.9	607.0	607.0	606.1
60°	560.4	557.2	550.4	551.3	550.4
62.5°	505.6	498.8	492.5	495.2	492.9
65°	443.1	439.5	432.7	434.5	434.1
67.5°	386.1	379.3	373.0	376.6	374.8
70°	322.7	319.1	312.8	316.4	311.9
72.5°	263.0	259.8	253.5	257.5	253.0
75°	205.0	201.9	196.9	200.5	196.0
77.5°	150.3	148.0	143.5	147.1	148.0
80°	100.5	97.8	95.5	98.7	99.6
82.5°	58.8	57.0	56.1	56.6	58.8
85°	28.5	26.3	26.3	26.7	26.7
87.5°	7.7	6.8	7.7	8.1	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)