

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: P974785

Luminaire Tested: FLR2-24-55HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974785
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: FLR2-24-55HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

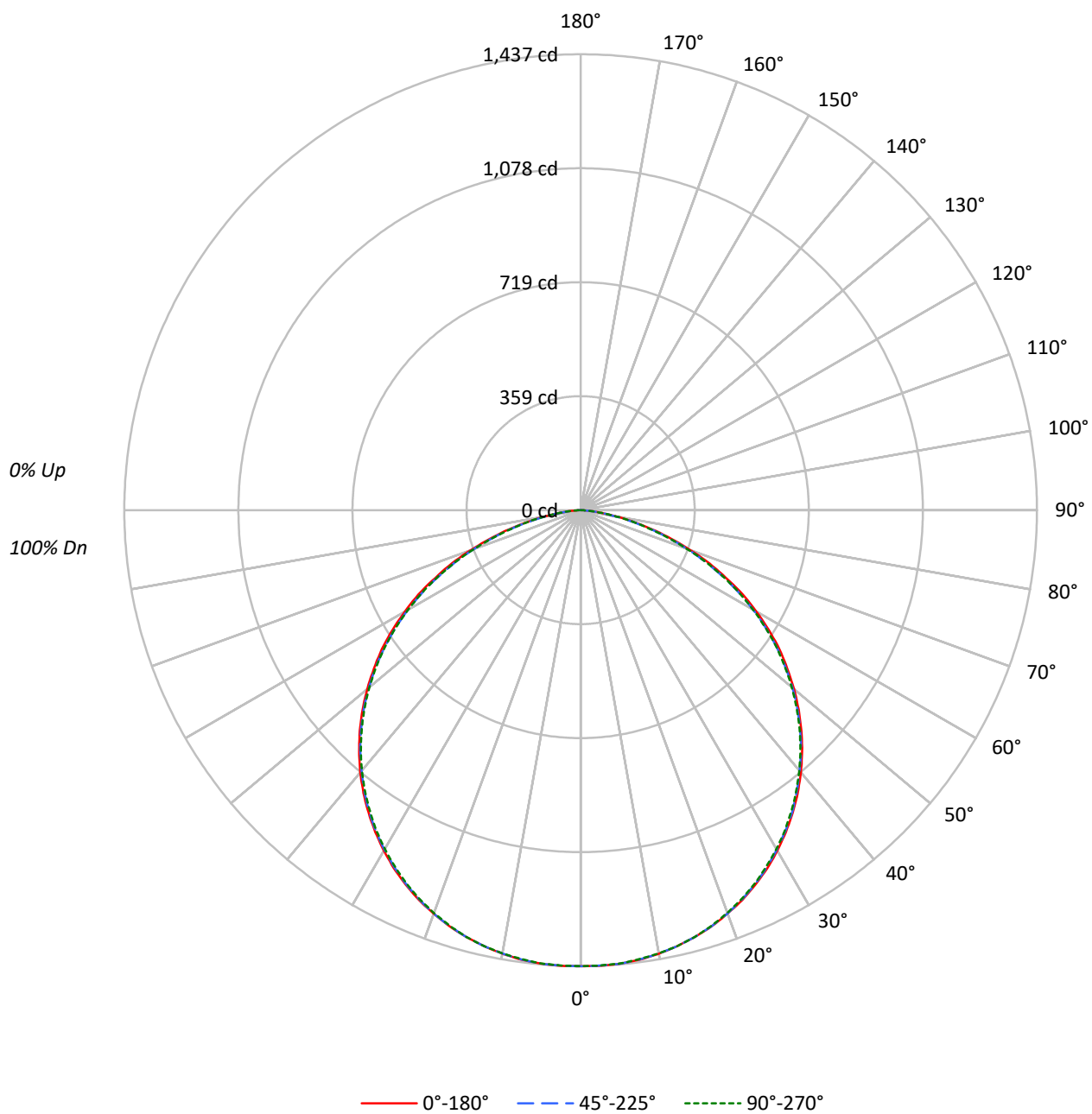
Lumens per Lamp: N/A
Luminaire Lumens: 4062.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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: P974785

CATALOG NUMBER: FLR2-24-55HE-L935-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974785

CATALOG NUMBER: FLR2-24-55HE-L935-CP375

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°	1934	1934	1934
5°	1938	1938	1936
10°	1939	1938	1938
15°	1940	1939	1939
20°	1938	1937	1934
25°	1934	1930	1927
30°	1925	1920	1916
35°	1913	1908	1901
40°	1896	1884	1881
45°	1871	1861	1855
50°	1836	1822	1817
55°	1793	1768	1765
60°	1718	1688	1688
65°	1607	1570	1575
70°	1447	1402	1398
75°	1214	1166	1161
80°	887	843	879
85°	502	462	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1871 cd/sqm

TEST NUMBER: P974785

CATALOG NUMBER: FLR2-24-55HE-L935-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	3.4
10°-20°	393.0	9.7
20°-30°	599.3	14.8
30°-40°	726.1	17.9
40°-50°	754.2	18.6
50°-60°	674.7	16.6
60°-70°	491.7	12.1
70°-80°	243.5	6.0
80°-90°	43.5	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°	1128.7	27.8
0°-40°	1854.8	45.7
0°-60°	3283.6	80.8
0°-90°	4062.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4062.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1435	1435	1435	1435	1434	136
15°	1392	1392	1392	1393	1392	393
25°	1303	1301	1300	1300	1298	600
35°	1164	1163	1161	1159	1157	728
45°	984	981	978	976	975	758
55°	764	759	754	754	752	681
65°	505	501	493	495	495	501
75°	234	230	224	228	223	249
85°	32	30	30	30	30	45
90°	0	0	0	0	0	

TEST NUMBER: P974785

CATALOG NUMBER: FLR2-24-55HE-L935-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1437.4	1436.8	1436.8	1437.4	1436.3
5°	1434.8	1435.3	1434.8	1434.8	1433.7
7.5°	1429.1	1428.6	1428.1	1428.6	1427.0
10°	1419.3	1419.3	1418.8	1419.3	1418.3
12.5°	1407.4	1407.4	1407.4	1408.0	1407.4
15°	1392.5	1392.0	1392.0	1393.0	1392.0
17.5°	1375.0	1374.4	1374.4	1373.9	1372.9
20°	1353.3	1353.3	1352.8	1352.3	1350.7
22.5°	1330.1	1329.6	1328.0	1328.0	1326.0
25°	1302.7	1301.2	1300.2	1299.7	1298.1
27.5°	1272.8	1270.8	1269.2	1268.2	1266.6
30°	1239.3	1237.3	1235.7	1234.2	1233.1
32.5°	1203.2	1202.2	1199.6	1199.1	1197.0
35°	1164.5	1163.0	1161.4	1159.4	1157.3
37.5°	1123.3	1121.7	1118.1	1117.1	1115.5
40°	1079.4	1077.4	1072.7	1072.7	1071.2
42.5°	1032.5	1030.4	1027.3	1025.3	1024.3
45°	983.5	981.4	977.8	975.8	974.7
47.5°	931.4	929.9	925.7	924.2	922.7
50°	877.3	875.2	870.6	869.5	868.0
52.5°	820.5	819.5	813.3	812.8	811.3
55°	764.3	758.6	753.5	753.5	752.5
57.5°	702.4	698.3	691.6	691.6	690.6
60°	638.5	634.9	627.1	628.2	627.1
62.5°	576.1	568.3	561.1	564.2	561.6
65°	504.9	500.8	493.0	495.1	494.6
67.5°	439.9	432.2	425.0	429.1	427.0
70°	367.7	363.6	356.4	360.5	355.3
72.5°	299.6	296.0	288.8	293.5	288.3
75°	233.6	230.0	224.3	228.5	223.3
77.5°	171.2	168.6	163.5	167.6	168.6
80°	114.5	111.4	108.8	112.4	113.5
82.5°	67.0	65.0	64.0	64.5	67.0
85°	32.5	29.9	29.9	30.4	30.4
87.5°	8.8	7.7	8.8	9.3	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)