

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: P974365

Luminaire Tested: FLR2-24-45-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974365
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: FLR2-24-45-L940-CP250
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L940-CP250
Ballast/Driver: -

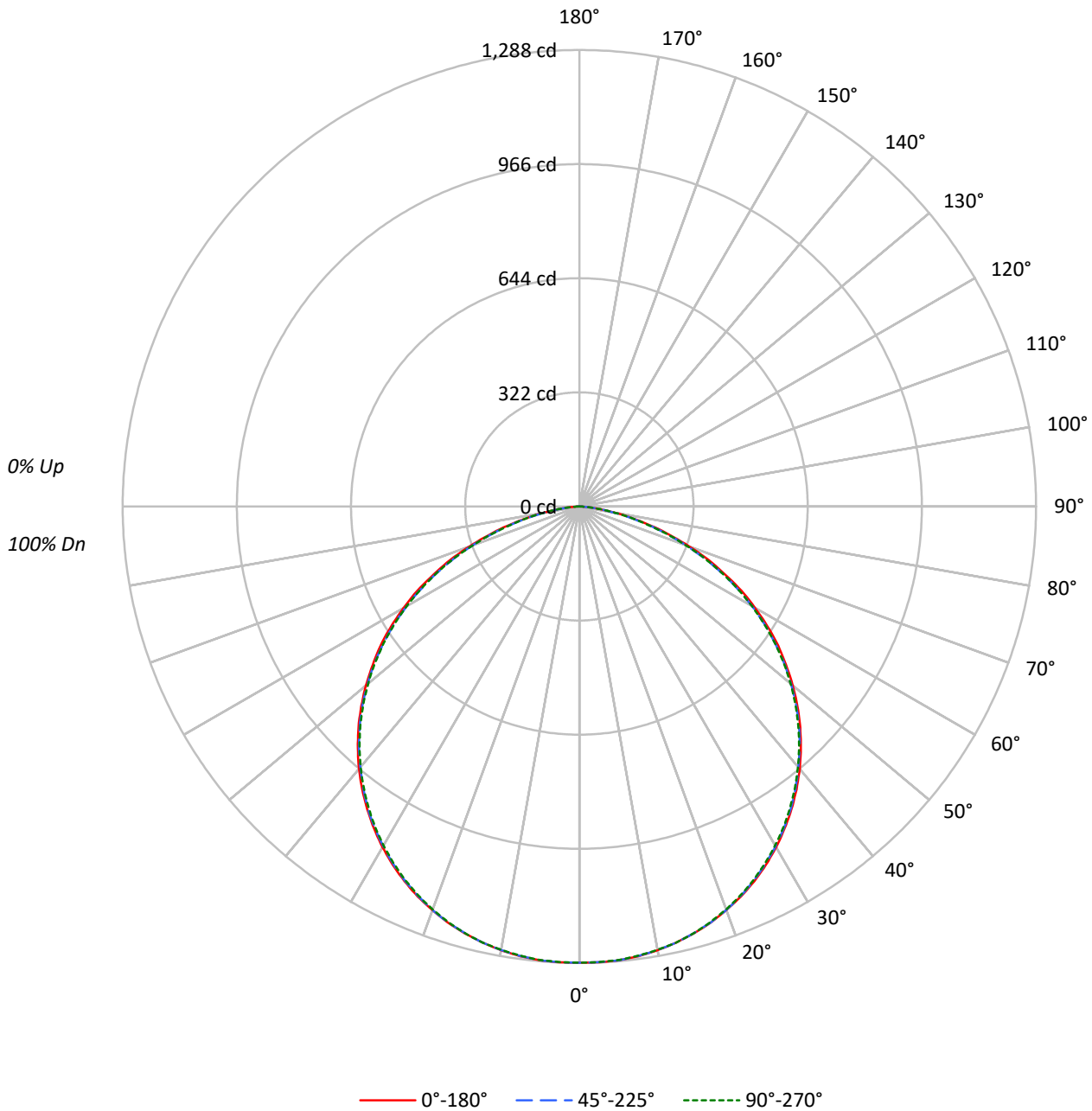
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3638.9 lumens
Efficiency: N/A
Efficacy: 102.2 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): 35.6
Input Voltage (V): 120
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100														
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85	85	85	85	85	85	85														
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71	71	71	71	71	71	71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60	60	60	60	60	60	60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51	51	51	51	51	51	51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44	44	44	44	44	44	44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38	38	38	38	38	38	38														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34	34	34	34	34	34	34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30	30	30	30	30	30	30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27	27	27	27	27	27	27														
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25	25	25	25	25	25	25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1732	1732	1732
5°	1736	1736	1735
10°	1737	1736	1736
15°	1737	1737	1737
20°	1736	1735	1732
25°	1732	1729	1726
30°	1725	1720	1716
35°	1713	1709	1703
40°	1698	1688	1685
45°	1676	1667	1661
50°	1645	1632	1627
55°	1606	1583	1581
60°	1539	1512	1512
65°	1440	1406	1410
70°	1296	1256	1252
75°	1088	1045	1040
80°	795	755	787
85°	449	414	421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	3.4
10°-20°	352.1	9.7
20°-30°	536.8	14.8
30°-40°	650.4	17.9
40°-50°	675.5	18.6
50°-60°	604.3	16.6
60°-70°	440.4	12.1
70°-80°	218.1	6.0
80°-90°	39.0	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°	1011.1	27.8
0°-40°	1661.4	45.7
0°-60°	2941.3	80.8
0°-90°	3638.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3638.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1285	1286	1285	1285	1284	122
15°	1247	1247	1247	1248	1247	352
25°	1167	1166	1165	1164	1163	538
35°	1043	1042	1040	1038	1037	652
45°	881	879	876	874	873	679
55°	685	680	675	675	674	610
65°	452	449	442	444	443	448
75°	209	206	201	205	200	223
85°	29	27	27	27	27	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1287.5	1287.5	1287.5	1287.5	1287.5
2.5°	1287.5	1287.0	1287.0	1287.5	1286.6
5°	1285.2	1285.6	1285.2	1285.2	1284.3
7.5°	1280.1	1279.6	1279.2	1279.6	1278.3
10°	1271.3	1271.3	1270.9	1271.3	1270.4
12.5°	1260.7	1260.7	1260.7	1261.2	1260.7
15°	1247.3	1246.8	1246.8	1247.8	1246.8
17.5°	1231.6	1231.1	1231.1	1230.7	1229.7
20°	1212.2	1212.2	1211.7	1211.3	1209.9
22.5°	1191.4	1190.9	1189.6	1189.6	1187.7
25°	1166.9	1165.5	1164.6	1164.1	1162.8
27.5°	1140.1	1138.3	1136.9	1136.0	1134.6
30°	1110.1	1108.2	1106.9	1105.5	1104.6
32.5°	1077.8	1076.8	1074.5	1074.1	1072.2
35°	1043.1	1041.7	1040.3	1038.5	1036.6
37.5°	1006.2	1004.8	1001.5	1000.6	999.2
40°	966.9	965.0	960.9	960.9	959.5
42.5°	924.8	923.0	920.2	918.4	917.5
45°	881.0	879.1	875.9	874.0	873.1
47.5°	834.3	832.9	829.2	827.8	826.5
50°	785.8	784.0	779.8	778.9	777.5
52.5°	735.0	734.1	728.5	728.1	726.7
55°	684.6	679.5	674.9	674.9	674.0
57.5°	629.2	625.5	619.5	619.5	618.6
60°	571.9	568.7	561.7	562.7	561.7
62.5°	516.0	509.1	502.6	505.4	503.1
65°	452.3	448.6	441.6	443.5	443.0
67.5°	394.1	387.1	380.7	384.4	382.5
70°	329.4	325.7	319.2	322.9	318.3
72.5°	268.4	265.2	258.7	262.9	258.2
75°	209.3	206.0	201.0	204.6	200.0
77.5°	153.4	151.1	146.4	150.1	151.1
80°	102.6	99.8	97.5	100.7	101.6
82.5°	60.1	58.2	57.3	57.7	60.1
85°	29.1	26.8	26.8	27.3	27.3
87.5°	7.9	6.9	7.9	8.3	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)