

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: P974373

Luminaire Tested: FLR2-24-45-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974373
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-45-L940-CP375
Ballast/Driver: -

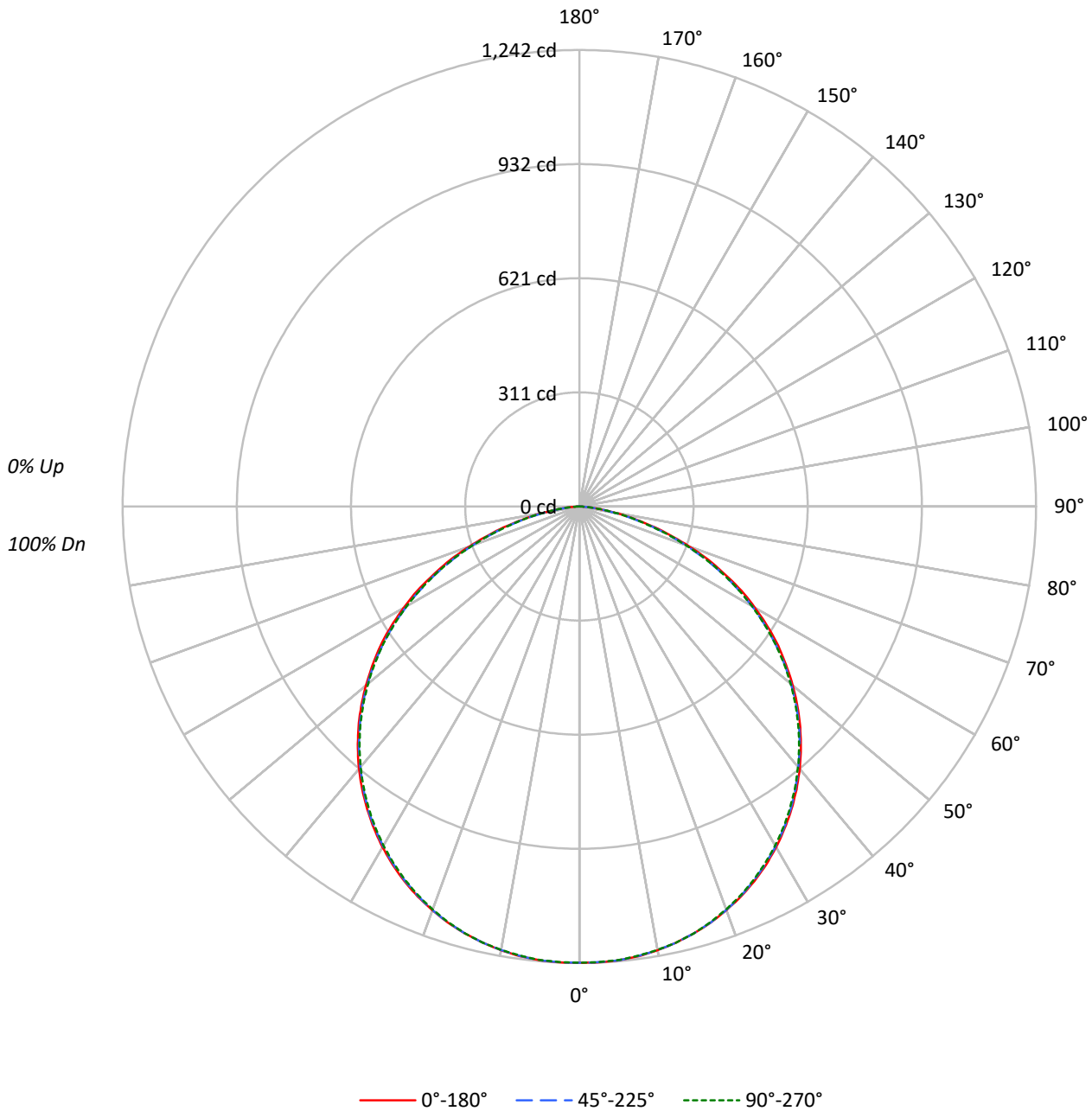
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3509.1 lumens
Efficiency: N/A
Efficacy: 98.6 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1671	1671	1671
5°	1674	1674	1673
10°	1675	1674	1674
15°	1675	1675	1675
20°	1674	1673	1671
25°	1671	1667	1665
30°	1663	1658	1655
35°	1652	1648	1642
40°	1638	1627	1625
45°	1616	1607	1602
50°	1586	1574	1569
55°	1549	1527	1525
60°	1484	1458	1458
65°	1388	1356	1360
70°	1249	1211	1207
75°	1049	1007	1003
80°	766	728	759
85°	434	398	406

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1616 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.9	3.4
10°-20°	339.5	9.7
20°-30°	517.6	14.8
30°-40°	627.2	17.9
40°-50°	651.5	18.6
50°-60°	582.8	16.6
60°-70°	424.7	12.1
70°-80°	210.3	6.0
80°-90°	37.6	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°	975.0	27.8
0°-40°	1602.2	45.7
0°-60°	2836.4	80.8
0°-90°	3509.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3509.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1239	1240	1239	1239	1238	118
15°	1203	1202	1202	1203	1202	340
25°	1125	1124	1123	1123	1121	519
35°	1006	1005	1003	1002	1000	629
45°	850	848	845	843	842	655
55°	660	655	651	651	650	588
65°	436	433	426	428	427	432
75°	202	199	194	197	193	215
85°	28	26	26	26	26	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.6	1241.6	1241.6	1241.6	1241.6
2.5°	1241.6	1241.1	1241.1	1241.6	1240.7
5°	1239.4	1239.8	1239.4	1239.4	1238.5
7.5°	1234.5	1234.0	1233.6	1234.0	1232.7
10°	1226.0	1226.0	1225.5	1226.0	1225.1
12.5°	1215.7	1215.7	1215.7	1216.2	1215.7
15°	1202.8	1202.4	1202.4	1203.3	1202.4
17.5°	1187.7	1187.2	1187.2	1186.8	1185.9
20°	1169.0	1169.0	1168.5	1168.1	1166.7
22.5°	1148.9	1148.5	1147.1	1147.1	1145.4
25°	1125.3	1124.0	1123.1	1122.6	1121.3
27.5°	1099.5	1097.7	1096.3	1095.5	1094.1
30°	1070.5	1068.7	1067.4	1066.1	1065.2
32.5°	1039.3	1038.4	1036.2	1035.8	1034.0
35°	1005.9	1004.6	1003.2	1001.5	999.7
37.5°	970.3	968.9	965.8	964.9	963.6
40°	932.4	930.6	926.6	926.6	925.3
42.5°	891.9	890.1	887.4	885.6	884.7
45°	849.5	847.8	844.6	842.9	842.0
47.5°	804.6	803.2	799.7	798.3	797.0
50°	757.8	756.0	752.0	751.1	749.8
52.5°	708.8	707.9	702.5	702.1	700.8
55°	660.2	655.3	650.9	650.9	650.0
57.5°	606.8	603.2	597.4	597.4	596.5
60°	551.5	548.4	541.7	542.6	541.7
62.5°	497.6	490.9	484.7	487.4	485.1
65°	436.1	432.6	425.9	427.7	427.2
67.5°	380.0	373.3	367.1	370.6	368.9
70°	317.6	314.1	307.8	311.4	306.9
72.5°	258.8	255.7	249.5	253.5	249.0
75°	201.8	198.7	193.8	197.4	192.9
77.5°	147.9	145.7	141.2	144.8	145.7
80°	98.9	96.2	94.0	97.1	98.0
82.5°	57.9	56.1	55.2	55.7	57.9
85°	28.1	25.8	25.8	26.3	26.3
87.5°	7.6	6.7	7.6	8.0	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)