

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: P974960

Luminaire Tested: FLR2-24-45HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974960
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-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

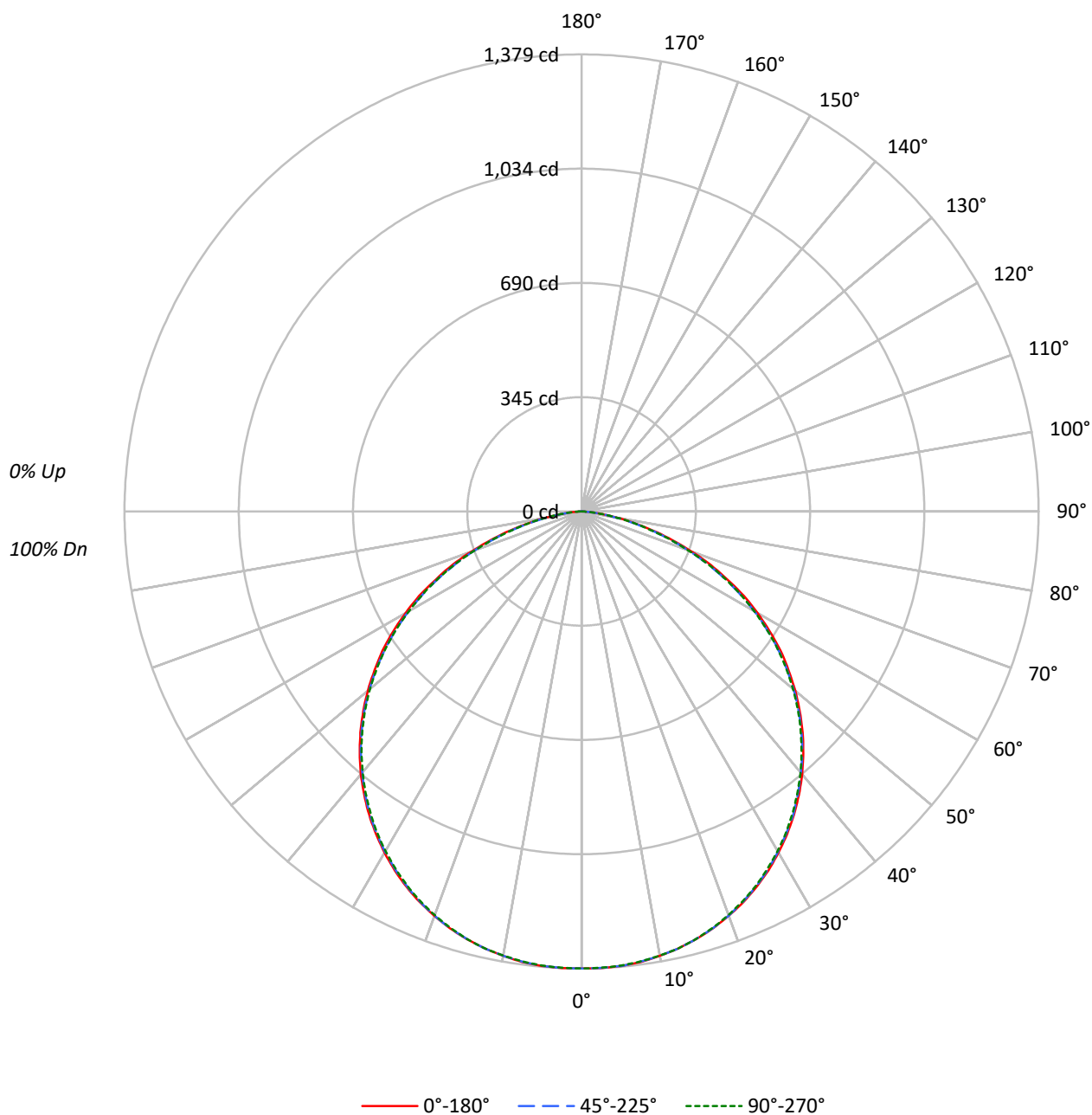
Lumens per Lamp: N/A
Luminaire Lumens: 3897.6 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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					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°	1856	1856	1856
5°	1859	1859	1858
10°	1860	1860	1859
15°	1861	1860	1860
20°	1859	1858	1856
25°	1856	1852	1849
30°	1847	1842	1838
35°	1835	1830	1824
40°	1819	1808	1805
45°	1795	1785	1780
50°	1762	1748	1743
55°	1720	1696	1693
60°	1648	1619	1619
65°	1542	1506	1511
70°	1388	1345	1341
75°	1166	1119	1114
80°	851	809	844
85°	482	443	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1795 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.4
10°-20°	377.1	9.7
20°-30°	575.0	14.8
30°-40°	696.6	17.9
40°-50°	723.6	18.6
50°-60°	647.3	16.6
60°-70°	471.8	12.1
70°-80°	233.6	6.0
80°-90°	41.8	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°	1083.0	27.8
0°-40°	1779.6	45.7
0°-60°	3150.5	80.8
0°-90°	3897.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1377	1377	1377	1377	1376	131
15°	1336	1336	1336	1336	1336	377
25°	1250	1248	1247	1247	1246	576
35°	1117	1116	1114	1112	1110	699
45°	944	942	938	936	935	727
55°	733	728	723	723	722	653
65°	484	480	473	475	474	480
75°	224	221	215	219	214	239
85°	31	29	29	29	29	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.1	1379.1	1379.1	1379.1	1379.1
2.5°	1379.1	1378.6	1378.6	1379.1	1378.1
5°	1376.6	1377.1	1376.6	1376.6	1375.6
7.5°	1371.1	1370.6	1370.1	1370.6	1369.2
10°	1361.7	1361.7	1361.2	1361.7	1360.7
12.5°	1350.4	1350.4	1350.4	1350.9	1350.4
15°	1336.0	1335.5	1335.5	1336.5	1335.5
17.5°	1319.2	1318.7	1318.7	1318.2	1317.2
20°	1298.4	1298.4	1297.9	1297.4	1295.9
22.5°	1276.1	1275.6	1274.2	1274.2	1272.2
25°	1249.9	1248.4	1247.4	1246.9	1245.5
27.5°	1221.2	1219.2	1217.7	1216.8	1215.3
30°	1189.0	1187.1	1185.6	1184.1	1183.1
32.5°	1154.4	1153.4	1150.9	1150.5	1148.5
35°	1117.3	1115.8	1114.3	1112.3	1110.4
37.5°	1077.7	1076.2	1072.8	1071.8	1070.3
40°	1035.7	1033.7	1029.2	1029.2	1027.7
42.5°	990.6	988.6	985.7	983.7	982.7
45°	943.6	941.6	938.2	936.2	935.2
47.5°	893.6	892.2	888.2	886.7	885.2
50°	841.7	839.7	835.3	834.3	832.8
52.5°	787.3	786.3	780.3	779.8	778.3
55°	733.3	727.9	722.9	722.9	721.9
57.5°	673.9	670.0	663.6	663.6	662.6
60°	612.6	609.1	601.7	602.7	601.7
62.5°	552.7	545.3	538.4	541.3	538.9
65°	484.4	480.5	473.0	475.0	474.5
67.5°	422.1	414.7	407.7	411.7	409.7
70°	352.8	348.8	341.9	345.9	340.9
72.5°	287.5	284.0	277.1	281.6	276.6
75°	224.2	220.7	215.2	219.2	214.3
77.5°	164.3	161.8	156.9	160.8	161.8
80°	109.8	106.9	104.4	107.9	108.9
82.5°	64.3	62.3	61.4	61.9	64.3
85°	31.2	28.7	28.7	29.2	29.2
87.5°	8.4	7.4	8.4	8.9	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)