

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: P973876

Luminaire Tested: FLR2-22-60HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-60HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

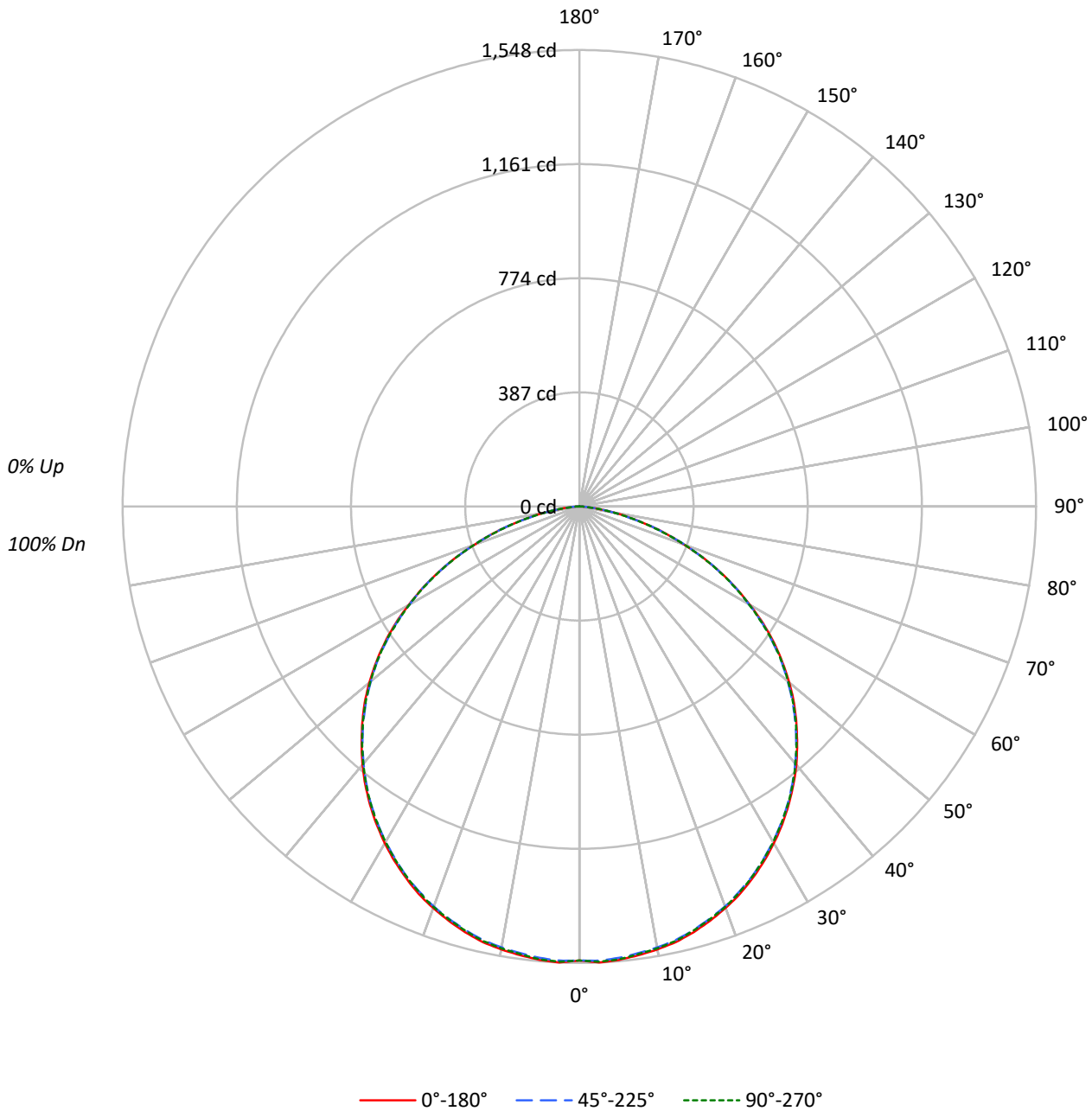
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4305.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.4
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	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	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4143	4143	4143
5°	4169	4151	4164
10°	4168	4150	4158
15°	4165	4146	4152
20°	4150	4134	4139
25°	4128	4111	4114
30°	4098	4081	4084
35°	4061	4046	4049
40°	4019	3999	4002
45°	3959	3941	3948
50°	3890	3862	3870
55°	3779	3748	3761
60°	3593	3577	3577
65°	3355	3349	3337
70°	2970	2985	2978
75°	2502	2482	2462
80°	1798	1768	1754
85°	939	939	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3959 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	3.4
10°-20°	419.3	9.7
20°-30°	637.1	14.8
30°-40°	770.1	17.9
40°-50°	799.3	18.6
50°-60°	714.6	16.6
60°-70°	519.6	12.1
70°-80°	255.5	5.9
80°-90°	44.3	1.0
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°	1202.2	27.9
0°-40°	1972.3	45.8
0°-60°	3486.3	81.0
0°-90°	4305.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4305.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1544	1525	1537	1531	1542	147
15°	1495	1478	1488	1484	1490	422
25°	1390	1375	1385	1382	1386	641
35°	1236	1228	1232	1232	1232	773
45°	1040	1036	1036	1038	1038	803
55°	806	801	799	801	802	718
65°	527	529	526	526	524	520
75°	241	242	239	240	237	255
85°	30	31	30	30	30	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.7	1539.7	1539.7	1539.7	1539.7
2.5°	1548.2	1530.2	1541.6	1534.9	1545.4
5°	1543.5	1525.4	1536.8	1531.1	1541.6
7.5°	1534.9	1516.8	1528.3	1522.5	1531.1
10°	1525.4	1506.4	1518.7	1513.0	1521.6
12.5°	1513.0	1495.0	1506.4	1501.6	1509.2
15°	1495.0	1477.9	1488.3	1484.5	1490.2
17.5°	1473.1	1456.0	1466.4	1463.6	1468.3
20°	1449.3	1433.2	1443.6	1440.8	1445.5
22.5°	1422.7	1405.6	1415.1	1413.2	1417.0
25°	1390.4	1375.1	1384.7	1381.8	1385.6
27.5°	1356.1	1341.9	1349.5	1349.5	1351.4
30°	1319.0	1305.7	1313.3	1313.3	1314.3
32.5°	1279.1	1268.6	1273.4	1274.3	1274.3
35°	1236.3	1227.7	1231.5	1232.5	1232.5
37.5°	1191.6	1183.0	1185.9	1187.8	1187.8
40°	1144.1	1136.4	1138.3	1140.2	1139.3
42.5°	1092.7	1087.0	1087.9	1089.8	1089.8
45°	1040.4	1035.6	1035.6	1037.5	1037.5
47.5°	987.1	982.4	980.5	982.4	982.4
50°	929.1	924.4	922.5	924.4	924.4
52.5°	868.3	863.5	863.5	863.5	864.5
55°	805.5	800.7	798.8	800.7	801.7
57.5°	738.9	737.0	734.2	735.1	732.3
60°	667.6	667.6	664.7	666.7	664.7
62.5°	598.2	600.1	597.2	597.2	595.3
65°	526.9	528.8	525.9	525.9	524.0
67.5°	453.6	456.5	452.7	452.7	450.8
70°	377.5	383.3	379.4	380.4	378.5
72.5°	309.1	311.9	308.1	308.1	306.2
75°	240.6	242.5	238.7	239.7	236.8
77.5°	173.1	175.9	172.1	173.1	172.1
80°	116.0	117.0	114.1	115.1	113.2
82.5°	67.5	68.5	67.5	66.6	65.6
85°	30.4	31.4	30.4	30.4	29.5
87.5°	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)