

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: P973858

Luminaire Tested: FLR2-22-60HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973858
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

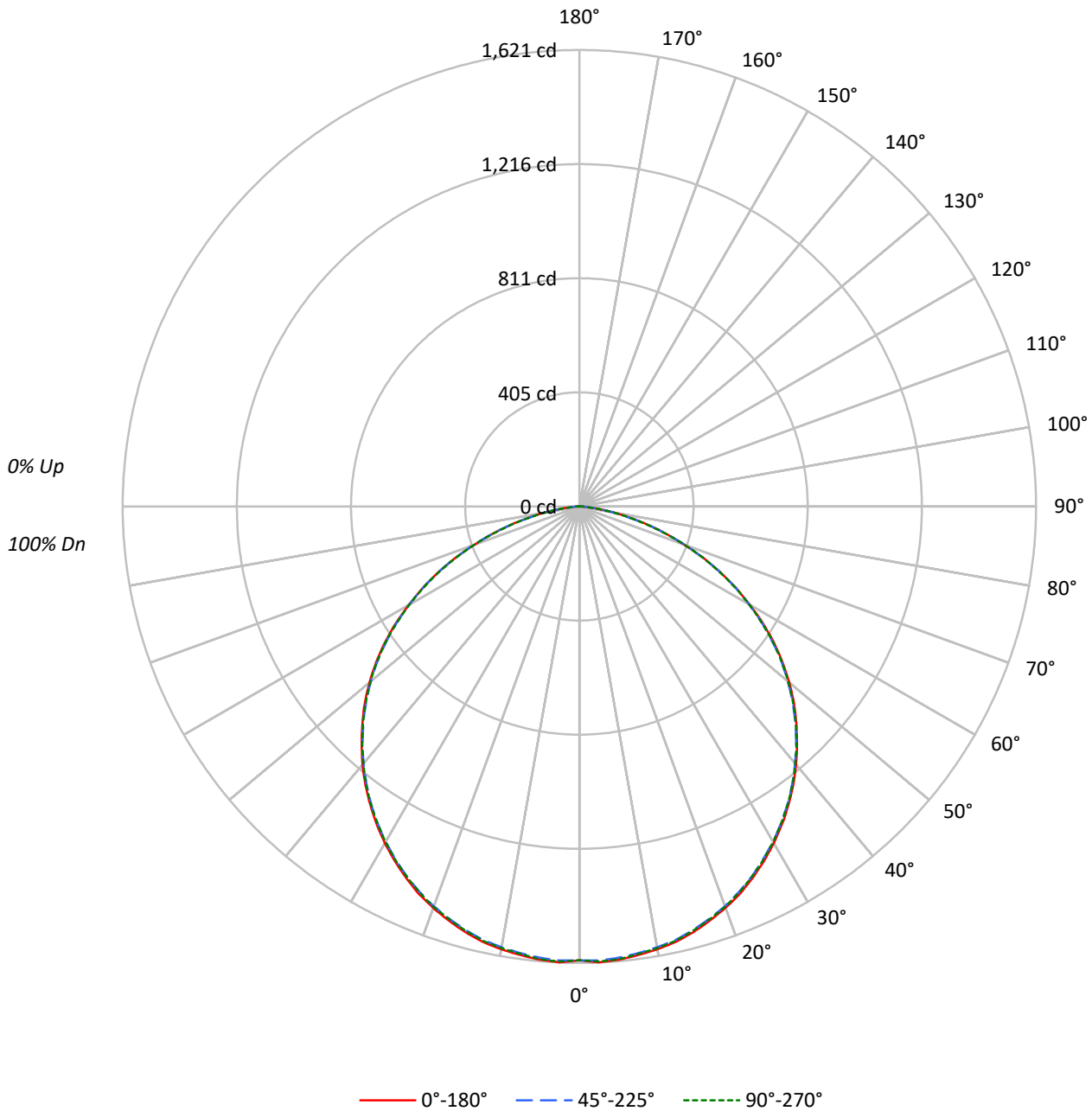
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4506.9 lumens
Efficiency: N/A
Efficacy: 95.1 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										
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														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4337	4337	4337
5°	4364	4345	4359
10°	4363	4344	4352
15°	4359	4340	4345
20°	4344	4327	4333
25°	4321	4303	4306
30°	4290	4272	4275
35°	4251	4235	4238
40°	4207	4186	4189
45°	4144	4125	4133
50°	4071	4042	4051
55°	3955	3923	3937
60°	3761	3745	3745
65°	3512	3505	3493
70°	3109	3125	3117
75°	2618	2598	2577
80°	1881	1852	1836
85°	985	985	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4144 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.6	3.4
10°-20°	438.9	9.7
20°-30°	666.9	14.8
30°-40°	806.1	17.9
40°-50°	836.7	18.6
50°-60°	748.0	16.6
60°-70°	543.9	12.1
70°-80°	267.5	5.9
80°-90°	46.4	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°	1258.4	27.9
0°-40°	2064.5	45.8
0°-60°	3649.2	81.0
0°-90°	4506.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4506.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1616	1597	1609	1603	1614	154
15°	1565	1547	1558	1554	1560	442
25°	1455	1439	1449	1446	1450	671
35°	1294	1285	1289	1290	1290	810
45°	1089	1084	1084	1086	1086	840
55°	843	838	836	838	839	751
65°	552	554	550	550	548	544
75°	252	254	250	251	248	267
85°	32	33	32	32	31	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.6	1611.6	1611.6	1611.6	1611.6
2.5°	1620.6	1601.6	1613.6	1606.6	1617.6
5°	1615.6	1596.7	1608.6	1602.6	1613.6
7.5°	1606.6	1587.7	1599.7	1593.7	1602.6
10°	1596.7	1576.8	1589.7	1583.7	1592.7
12.5°	1583.7	1564.8	1576.8	1571.8	1579.7
15°	1564.8	1546.9	1557.8	1553.9	1559.8
17.5°	1541.9	1524.0	1535.0	1532.0	1536.9
20°	1517.0	1500.1	1511.1	1508.1	1513.1
22.5°	1489.2	1471.2	1481.2	1479.2	1483.2
25°	1455.3	1439.4	1449.3	1446.4	1450.3
27.5°	1419.5	1404.6	1412.5	1412.5	1414.5
30°	1380.7	1366.7	1374.7	1374.7	1375.7
32.5°	1338.9	1327.9	1332.9	1333.9	1333.9
35°	1294.1	1285.1	1289.1	1290.1	1290.1
37.5°	1247.3	1238.3	1241.3	1243.3	1243.3
40°	1197.5	1189.5	1191.5	1193.5	1192.5
42.5°	1143.7	1137.8	1138.8	1140.8	1140.8
45°	1089.0	1084.0	1084.0	1086.0	1086.0
47.5°	1033.3	1028.3	1026.3	1028.3	1028.3
50°	972.5	967.6	965.6	967.6	967.6
52.5°	908.8	903.8	903.8	903.8	904.8
55°	843.1	838.2	836.2	838.2	839.1
57.5°	773.4	771.5	768.5	769.5	766.5
60°	698.8	698.8	695.8	697.8	695.8
62.5°	626.1	628.1	625.1	625.1	623.1
65°	551.5	553.5	550.5	550.5	548.5
67.5°	474.8	477.8	473.8	473.8	471.8
70°	395.2	401.2	397.2	398.2	396.2
72.5°	323.5	326.5	322.5	322.5	320.5
75°	251.8	253.8	249.9	250.8	247.9
77.5°	181.2	184.2	180.2	181.2	180.2
80°	121.4	122.4	119.5	120.4	118.5
82.5°	70.7	71.7	70.7	69.7	68.7
85°	31.9	32.8	31.9	31.9	30.9
87.5°	8.0	8.0	8.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)