

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: P974050

Luminaire Tested: FLR2-22-60HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974050
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

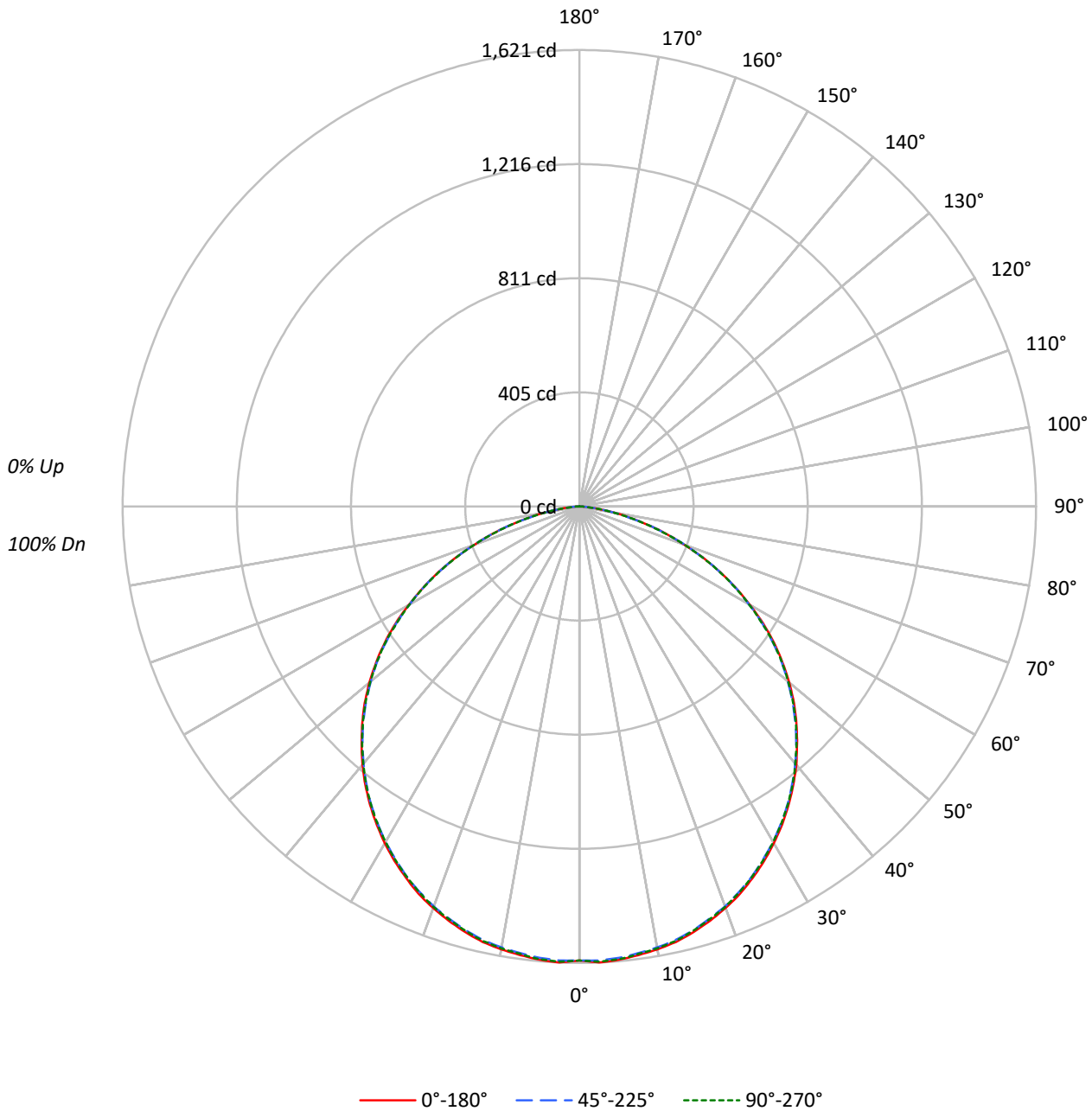
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4508.3 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°	4338	4338	4338
5°	4366	4347	4360
10°	4364	4345	4353
15°	4361	4342	4347
20°	4346	4329	4334
25°	4323	4305	4308
30°	4291	4273	4276
35°	4253	4236	4239
40°	4208	4187	4190
45°	4146	4127	4134
50°	4073	4044	4052
55°	3957	3924	3938
60°	3762	3746	3746
65°	3512	3507	3494
70°	3110	3126	3118
75°	2619	2598	2577
80°	1883	1852	1836
85°	985	985	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4146 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	3.4
10°-20°	439.0	9.7
20°-30°	667.1	14.8
30°-40°	806.4	17.9
40°-50°	837.0	18.6
50°-60°	748.3	16.6
60°-70°	544.0	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°	1258.8	27.9
0°-40°	2065.1	45.8
0°-60°	3650.4	81.0
0°-90°	4508.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4508.3	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°	1456	1440	1450	1447	1451	671
35°	1294	1286	1290	1290	1290	810
45°	1089	1084	1084	1086	1086	840
55°	843	838	836	838	839	752
65°	552	554	551	551	549	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°	1612.1	1612.1	1612.1	1612.1	1612.1
2.5°	1621.1	1602.2	1614.1	1607.1	1618.1
5°	1616.1	1597.2	1609.1	1603.2	1614.1
7.5°	1607.1	1588.2	1600.2	1594.2	1603.2
10°	1597.2	1577.3	1590.2	1584.2	1593.2
12.5°	1584.2	1565.3	1577.3	1572.3	1580.3
15°	1565.3	1547.4	1558.4	1554.4	1560.3
17.5°	1542.4	1524.5	1535.4	1532.5	1537.4
20°	1517.5	1500.6	1511.6	1508.6	1513.5
22.5°	1489.6	1471.7	1481.7	1479.7	1483.7
25°	1455.8	1439.9	1449.8	1446.8	1450.8
27.5°	1419.9	1405.0	1413.0	1413.0	1415.0
30°	1381.1	1367.2	1375.1	1375.1	1376.1
32.5°	1339.3	1328.3	1333.3	1334.3	1334.3
35°	1294.5	1285.5	1289.5	1290.5	1290.5
37.5°	1247.7	1238.7	1241.7	1243.7	1243.7
40°	1197.9	1189.9	1191.9	1193.9	1192.9
42.5°	1144.1	1138.1	1139.1	1141.1	1141.1
45°	1089.4	1084.4	1084.4	1086.4	1086.4
47.5°	1033.6	1028.6	1026.6	1028.6	1028.6
50°	972.8	967.9	965.9	967.9	967.9
52.5°	909.1	904.1	904.1	904.1	905.1
55°	843.4	838.4	836.4	838.4	839.4
57.5°	773.7	771.7	768.7	769.7	766.7
60°	699.0	699.0	696.0	698.0	696.0
62.5°	626.3	628.3	625.3	625.3	623.3
65°	551.6	553.6	550.7	550.7	548.7
67.5°	475.0	478.0	474.0	474.0	472.0
70°	395.3	401.3	397.3	398.3	396.3
72.5°	323.6	326.6	322.6	322.6	320.6
75°	251.9	253.9	249.9	250.9	247.9
77.5°	181.2	184.2	180.2	181.2	180.2
80°	121.5	122.5	119.5	120.5	118.5
82.5°	70.7	71.7	70.7	69.7	68.7
85°	31.9	32.9	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)