

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: P973731

Luminaire Tested: FLR2-22-50HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973731
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: FLR2-22-50HE-L830-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

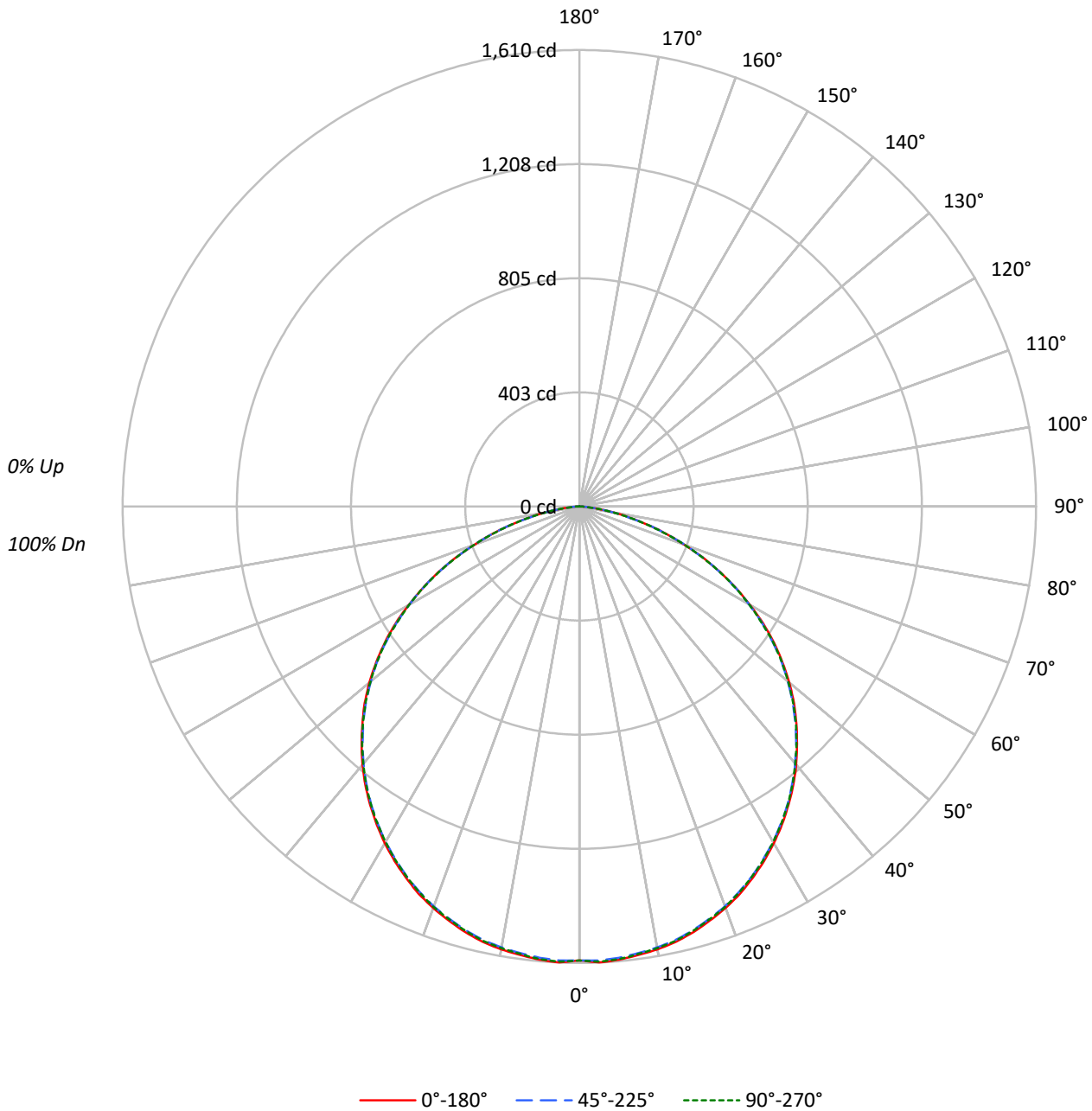
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.2 lumens
Efficiency: N/A
Efficacy: 111.9 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): 40
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

TEST NUMBER: P973731
CATALOG NUMBER: FLR2-22-50HE-L830-CP125

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°	4308	4308	4308
5°	4335	4317	4330
10°	4334	4315	4323
15°	4331	4311	4317
20°	4316	4299	4304
25°	4293	4275	4278
30°	4262	4243	4246
35°	4223	4207	4210
40°	4179	4158	4162
45°	4117	4098	4106
50°	4045	4016	4024
55°	3930	3897	3911
60°	3736	3720	3720
65°	3488	3482	3470
70°	3089	3105	3097
75°	2601	2581	2560
80°	1869	1839	1824
85°	976	976	948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4117 cd/sqm



TEST NUMBER: P973731
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	3.4
10°-20°	436.0	9.7
20°-30°	662.5	14.8
30°-40°	800.8	17.9
40°-50°	831.2	18.6
50°-60°	743.1	16.6
60°-70°	540.3	12.1
70°-80°	265.7	5.9
80°-90°	46.1	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°	1250.1	27.9
0°-40°	2050.9	45.8
0°-60°	3625.2	81.0
0°-90°	4477.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1605	1586	1598	1592	1603	153
15°	1554	1537	1548	1544	1550	439
25°	1446	1430	1440	1437	1441	666
35°	1286	1277	1281	1282	1282	804
45°	1082	1077	1077	1079	1079	835
55°	838	833	831	833	834	747
65°	548	550	547	547	545	540
75°	250	252	248	249	246	266
85°	32	33	32	32	31	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1601.0	1601.0	1601.0	1601.0	1601.0
2.5°	1609.9	1591.1	1603.0	1596.0	1606.9
5°	1604.9	1586.2	1598.0	1592.1	1603.0
7.5°	1596.0	1577.3	1589.1	1583.2	1592.1
10°	1586.2	1566.4	1579.2	1573.3	1582.2
12.5°	1573.3	1554.5	1566.4	1561.4	1569.3
15°	1554.5	1536.7	1547.6	1543.6	1549.6
17.5°	1531.8	1514.0	1524.8	1521.9	1526.8
20°	1507.0	1490.2	1501.1	1498.1	1503.1
22.5°	1479.4	1461.6	1471.4	1469.5	1473.4
25°	1445.7	1429.9	1439.8	1436.8	1440.8
27.5°	1410.1	1395.3	1403.2	1403.2	1405.2
30°	1371.6	1357.7	1365.6	1365.6	1366.6
32.5°	1330.0	1319.2	1324.1	1325.1	1325.1
35°	1285.5	1276.6	1280.6	1281.6	1281.6
37.5°	1239.1	1230.2	1233.1	1235.1	1235.1
40°	1189.6	1181.7	1183.7	1185.7	1184.7
42.5°	1136.2	1130.3	1131.3	1133.2	1133.2
45°	1081.8	1076.9	1076.9	1078.9	1078.9
47.5°	1026.5	1021.5	1019.5	1021.5	1021.5
50°	966.1	961.2	959.2	961.2	961.2
52.5°	902.8	897.9	897.9	897.9	898.9
55°	837.6	832.6	830.7	832.6	833.6
57.5°	768.4	766.4	763.4	764.4	761.4
60°	694.2	694.2	691.2	693.2	691.2
62.5°	622.0	624.0	621.0	621.0	619.0
65°	547.8	549.8	546.8	546.8	544.9
67.5°	471.7	474.7	470.7	470.7	468.7
70°	392.6	398.5	394.6	395.5	393.6
72.5°	321.4	324.4	320.4	320.4	318.4
75°	250.2	252.2	248.2	249.2	246.2
77.5°	180.0	182.9	179.0	180.0	179.0
80°	120.6	121.6	118.7	119.7	117.7
82.5°	70.2	71.2	70.2	69.2	68.2
85°	31.6	32.6	31.6	31.6	30.7
87.5°	7.9	7.9	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)