

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: P974001

Luminaire Tested: FLR2-22-50HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974001
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-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

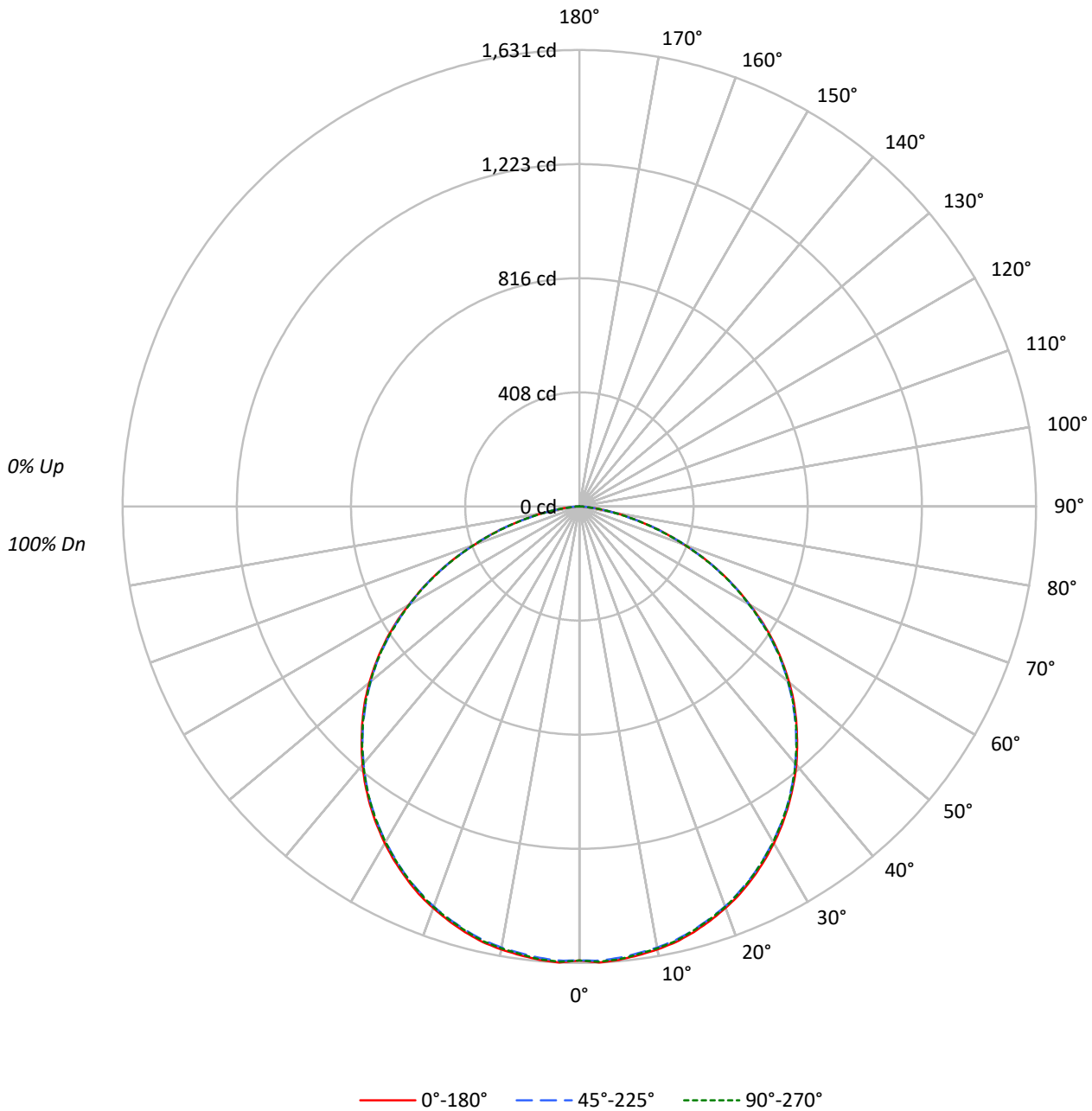
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4536.6 lumens
Efficiency: N/A
Efficacy: 113.4 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

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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°	4365	4365	4365
5°	4393	4374	4387
10°	4392	4373	4381
15°	4388	4369	4374
20°	4373	4356	4361
25°	4350	4332	4335
30°	4318	4300	4303
35°	4279	4263	4266
40°	4234	4213	4217
45°	4172	4153	4160
50°	4098	4069	4077
55°	3982	3949	3963
60°	3786	3770	3770
65°	3535	3528	3515
70°	3130	3146	3138
75°	2636	2615	2594
80°	1894	1863	1847
85°	991	991	960

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4172 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	3.4
10°-20°	441.8	9.7
20°-30°	671.3	14.8
30°-40°	811.4	17.9
40°-50°	842.2	18.6
50°-60°	752.9	16.6
60°-70°	547.5	12.1
70°-80°	269.2	5.9
80°-90°	46.7	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°	1266.7	27.9
0°-40°	2078.1	45.8
0°-60°	3673.3	81.0
0°-90°	4536.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4536.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1622	1622	1622	1622	1622	
5°	1626	1607	1619	1613	1624	155
15°	1575	1557	1568	1564	1570	444
25°	1465	1449	1459	1456	1460	675
35°	1303	1294	1298	1299	1299	815
45°	1096	1091	1091	1093	1093	846
55°	849	844	842	844	845	756
65°	555	557	554	554	552	547
75°	254	256	252	252	250	269
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°	1622.2	1622.2	1622.2	1622.2	1622.2
2.5°	1631.2	1612.2	1624.2	1617.2	1628.2
5°	1626.2	1607.2	1619.2	1613.2	1624.2
7.5°	1617.2	1598.2	1610.2	1604.2	1613.2
10°	1607.2	1587.2	1600.2	1594.2	1603.2
12.5°	1594.2	1575.1	1587.2	1582.1	1590.2
15°	1575.1	1557.1	1568.1	1564.1	1570.1
17.5°	1552.1	1534.0	1545.1	1542.1	1547.1
20°	1527.0	1510.0	1521.0	1518.0	1523.0
22.5°	1499.0	1480.9	1491.0	1489.0	1493.0
25°	1464.9	1448.9	1458.9	1455.9	1459.9
27.5°	1428.8	1413.8	1421.8	1421.8	1423.8
30°	1389.8	1375.7	1383.8	1383.8	1384.8
32.5°	1347.7	1336.7	1341.7	1342.7	1342.7
35°	1302.6	1293.6	1297.6	1298.6	1298.6
37.5°	1255.5	1246.5	1249.5	1251.5	1251.5
40°	1205.4	1197.4	1199.4	1201.4	1200.4
42.5°	1151.3	1145.3	1146.3	1148.3	1148.3
45°	1096.2	1091.2	1091.2	1093.2	1093.2
47.5°	1040.1	1035.1	1033.1	1035.1	1035.1
50°	978.9	973.9	971.9	973.9	973.9
52.5°	914.8	909.8	909.8	909.8	910.8
55°	848.7	843.7	841.7	843.7	844.7
57.5°	778.5	776.5	773.5	774.5	771.5
60°	703.4	703.4	700.4	702.4	700.4
62.5°	630.3	632.3	629.3	629.3	627.2
65°	555.1	557.1	554.1	554.1	552.1
67.5°	478.0	481.0	476.9	476.9	474.9
70°	397.8	403.8	399.8	400.8	398.8
72.5°	325.6	328.7	324.6	324.6	322.6
75°	253.5	255.5	251.5	252.5	249.5
77.5°	182.4	185.4	181.4	182.4	181.4
80°	122.2	123.2	120.2	121.2	119.2
82.5°	71.1	72.1	71.1	70.1	69.1
85°	32.1	33.1	32.1	32.1	31.1
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)