

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: P974008

Luminaire Tested: FLR2-22-60HE-L850-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974008
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-L850-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

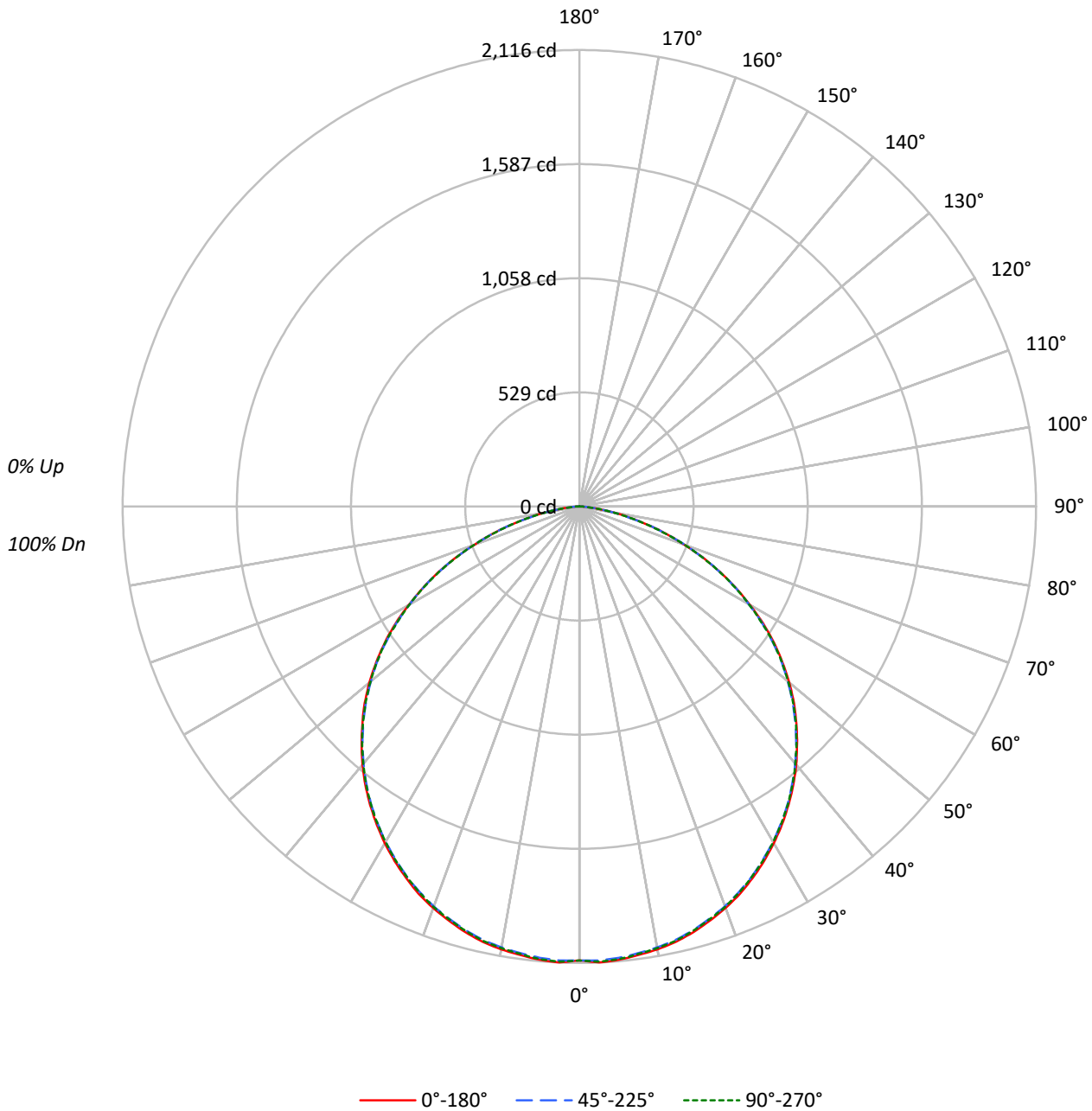
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5884.6 lumens
Efficiency: N/A
Efficacy: 124.1 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

TEST NUMBER: P974008
CATALOG NUMBER: FLR2-22-60HE-L850-CA080

Luminous Intensity Polar Plot





TEST NUMBER: P974008
 CATALOG NUMBER: FLR2-22-60HE-L850-CA080

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°	5662	5662	5662
5°	5698	5673	5691
10°	5696	5672	5682
15°	5692	5667	5674
20°	5672	5650	5657
25°	5642	5619	5623
30°	5601	5577	5581
35°	5550	5529	5533
40°	5493	5465	5470
45°	5411	5386	5396
50°	5316	5278	5289
55°	5165	5122	5141
60°	4910	4890	4890
65°	4585	4576	4560
70°	4060	4080	4070
75°	3419	3392	3365
80°	2458	2417	2397
85°	1284	1284	1244

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5411 cd/sqm



TEST NUMBER: P974008
 CATALOG NUMBER: FLR2-22-60HE-L850-CA080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	3.4
10°-20°	573.0	9.7
20°-30°	870.8	14.8
30°-40°	1052.5	17.9
40°-50°	1092.5	18.6
50°-60°	976.7	16.6
60°-70°	710.1	12.1
70°-80°	349.2	5.9
80°-90°	60.6	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°	1643.0	27.9
0°-40°	2695.5	45.8
0°-60°	4764.7	81.0
0°-90°	5884.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5884.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2109	2085	2100	2092	2107	200
15°	2043	2020	2034	2029	2037	577
25°	1900	1879	1892	1888	1894	876
35°	1690	1678	1683	1684	1684	1057
45°	1422	1415	1415	1418	1418	1097
55°	1101	1094	1092	1094	1096	981
65°	720	723	719	719	716	710
75°	329	331	326	328	324	349
85°	42	43	42	42	40	61
90°	0	0	0	0	0	



TEST NUMBER: P974008
 CATALOG NUMBER: FLR2-22-60HE-L850-CA080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2104.2	2104.2	2104.2	2104.2	2104.2
2.5°	2115.9	2091.2	2106.8	2097.7	2112.0
5°	2109.4	2084.7	2100.3	2092.5	2106.8
7.5°	2097.7	2073.0	2088.6	2080.8	2092.5
10°	2084.7	2058.7	2075.6	2067.8	2079.5
12.5°	2067.8	2043.1	2058.7	2052.2	2062.6
15°	2043.1	2019.8	2034.1	2028.9	2036.7
17.5°	2013.3	1989.9	2004.2	2000.3	2006.8
20°	1980.8	1958.7	1973.0	1969.1	1975.6
22.5°	1944.4	1921.0	1934.0	1931.4	1936.6
25°	1900.2	1879.4	1892.4	1888.5	1893.7
27.5°	1853.4	1833.9	1844.3	1844.3	1846.9
30°	1802.7	1784.5	1794.9	1794.9	1796.2
32.5°	1748.1	1733.8	1740.3	1741.6	1741.6
35°	1689.6	1677.9	1683.1	1684.4	1684.4
37.5°	1628.5	1616.8	1620.7	1623.3	1623.3
40°	1563.6	1553.2	1555.8	1558.4	1557.1
42.5°	1493.4	1485.6	1486.9	1489.5	1489.5
45°	1421.9	1415.4	1415.4	1418.0	1418.0
47.5°	1349.1	1342.6	1340.0	1342.6	1342.6
50°	1269.8	1263.3	1260.7	1263.3	1263.3
52.5°	1186.6	1180.1	1180.1	1180.1	1181.4
55°	1100.9	1094.4	1091.8	1094.4	1095.7
57.5°	1009.9	1007.3	1003.4	1004.7	1000.8
60°	912.4	912.4	908.5	911.1	908.5
62.5°	817.5	820.1	816.2	816.2	813.6
65°	720.0	722.6	718.7	718.7	716.1
67.5°	620.0	623.9	618.7	618.7	616.1
70°	516.0	523.8	518.6	519.9	517.3
72.5°	422.4	426.3	421.1	421.1	418.5
75°	328.8	331.4	326.2	327.5	323.6
77.5°	236.5	240.4	235.2	236.5	235.2
80°	158.6	159.9	156.0	157.3	154.7
82.5°	92.3	93.6	92.3	91.0	89.7
85°	41.6	42.9	41.6	41.6	40.3
87.5°	10.4	10.4	10.4	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)