

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: P974963

Luminaire Tested: FLR2-24-72HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-72HE-L940-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

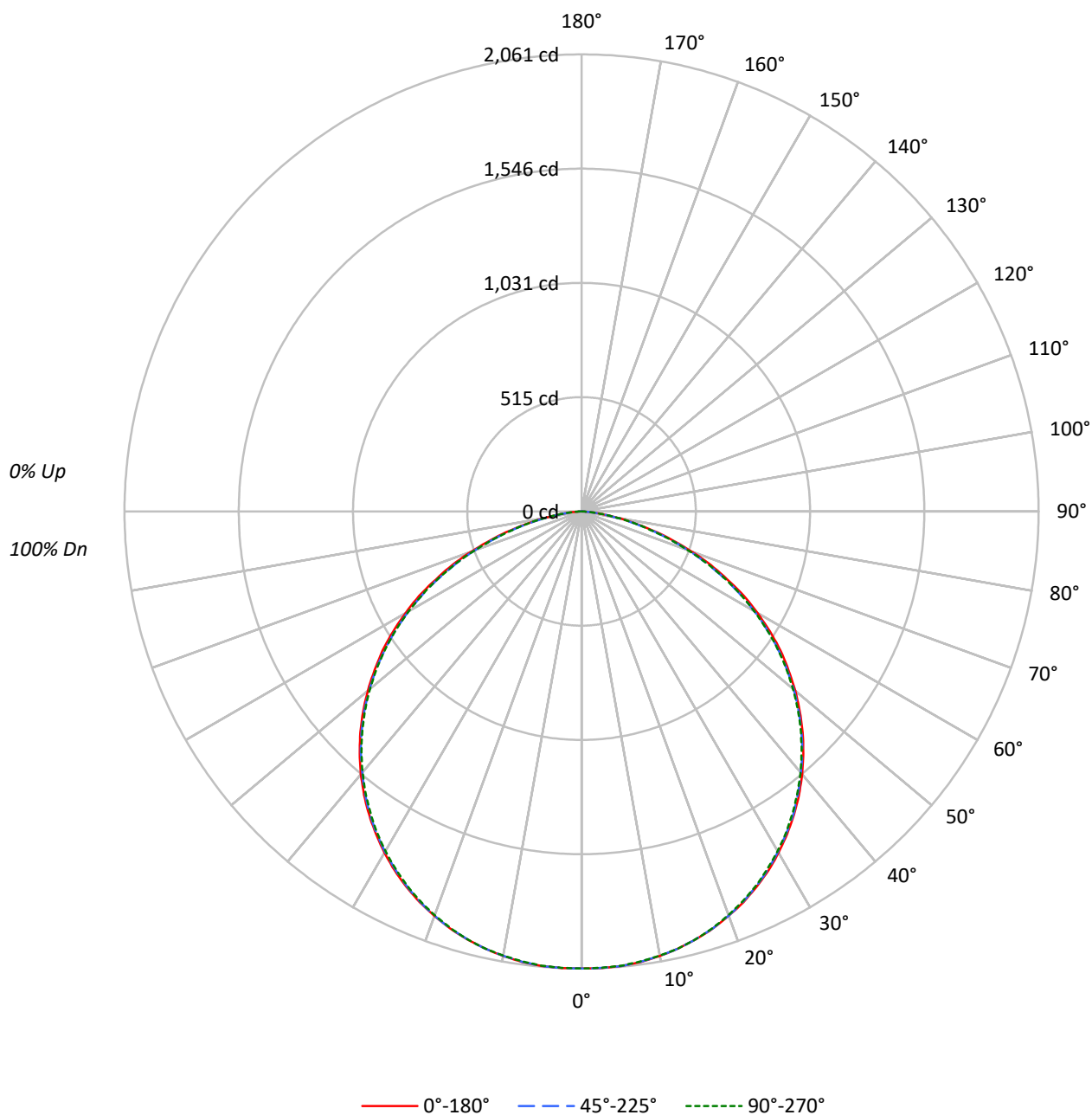
Lumens per Lamp: N/A
Luminaire Lumens: 5825.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
Input Voltage (V):
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: P974963

CATALOG NUMBER: FLR2-24-72HE-L940-CA125

Luminous Intensity Polar Plot



TEST NUMBER: P974963

CATALOG NUMBER: FLR2-24-72HE-L940-CA125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2773	2773	2773
5°	2779	2779	2777
10°	2781	2780	2779
15°	2782	2781	2781
20°	2779	2778	2774
25°	2774	2768	2764
30°	2761	2753	2747
35°	2743	2736	2726
40°	2719	2702	2698
45°	2684	2668	2660
50°	2633	2613	2606
55°	2571	2535	2531
60°	2464	2420	2420
65°	2305	2251	2258
70°	2074	2011	2005
75°	1742	1672	1665
80°	1272	1210	1261
85°	719	662	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2684 cd/sqm

TEST NUMBER: P974963

CATALOG NUMBER: FLR2-24-72HE-L940-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.7	3.4
10°-20°	563.7	9.7
20°-30°	859.4	14.8
30°-40°	1041.2	17.9
40°-50°	1081.6	18.6
50°-60°	967.5	16.6
60°-70°	705.2	12.1
70°-80°	349.2	6.0
80°-90°	62.4	1.1
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°	1618.7	27.8
0°-40°	2660.0	45.7
0°-60°	4709.1	80.8
0°-90°	5825.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2061	2061	2061	2061	2061	
5°	2058	2058	2058	2058	2056	196
15°	1997	1996	1996	1998	1996	564
25°	1868	1866	1865	1864	1862	861
35°	1670	1668	1666	1663	1660	1045
45°	1410	1408	1402	1399	1398	1087
55°	1096	1088	1081	1081	1079	977
65°	724	718	707	710	709	718
75°	335	330	322	328	320	357
85°	47	43	43	44	44	65
90°	0	0	0	0	0	

TEST NUMBER: P974963

CATALOG NUMBER: FLR2-24-72HE-L940-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2061.3	2061.3	2061.3	2061.3	2061.3
2.5°	2061.3	2060.6	2060.6	2061.3	2059.8
5°	2057.6	2058.4	2057.6	2057.6	2056.1
7.5°	2049.5	2048.7	2048.0	2048.7	2046.5
10°	2035.4	2035.4	2034.7	2035.4	2033.9
12.5°	2018.4	2018.4	2018.4	2019.2	2018.4
15°	1997.0	1996.2	1996.2	1997.7	1996.2
17.5°	1971.8	1971.1	1971.1	1970.3	1968.9
20°	1940.8	1940.8	1940.0	1939.3	1937.1
22.5°	1907.5	1906.7	1904.5	1904.5	1901.6
25°	1868.3	1866.1	1864.6	1863.8	1861.6
27.5°	1825.4	1822.4	1820.2	1818.7	1816.5
30°	1777.3	1774.3	1772.1	1769.9	1768.4
32.5°	1725.5	1724.0	1720.3	1719.6	1716.6
35°	1670.1	1667.8	1665.6	1662.7	1659.7
37.5°	1610.9	1608.7	1603.5	1602.0	1599.8
40°	1548.0	1545.1	1538.4	1538.4	1536.2
42.5°	1480.7	1477.8	1473.3	1470.4	1468.9
45°	1410.4	1407.5	1402.3	1399.4	1397.9
47.5°	1335.7	1333.5	1327.6	1325.4	1323.2
50°	1258.1	1255.1	1248.5	1247.0	1244.8
52.5°	1176.7	1175.3	1166.4	1165.6	1163.4
55°	1096.1	1088.0	1080.6	1080.6	1079.1
57.5°	1007.4	1001.4	991.8	991.8	990.3
60°	915.6	910.5	899.4	900.9	899.4
62.5°	826.2	815.1	804.7	809.1	805.4
65°	724.1	718.2	707.1	710.0	709.3
67.5°	630.9	619.8	609.4	615.4	612.4
70°	527.3	521.4	511.1	517.0	509.6
72.5°	429.7	424.5	414.2	420.8	413.4
75°	335.0	329.9	321.7	327.6	320.3
77.5°	245.6	241.9	234.5	240.4	241.9
80°	164.2	159.8	156.1	161.2	162.7
82.5°	96.2	93.2	91.7	92.5	96.2
85°	46.6	42.9	42.9	43.6	43.6
87.5°	12.6	11.1	12.6	13.3	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)