

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: P974942

Luminaire Tested: FLR2-24-80HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974942
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: FLR2-24-80HE-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

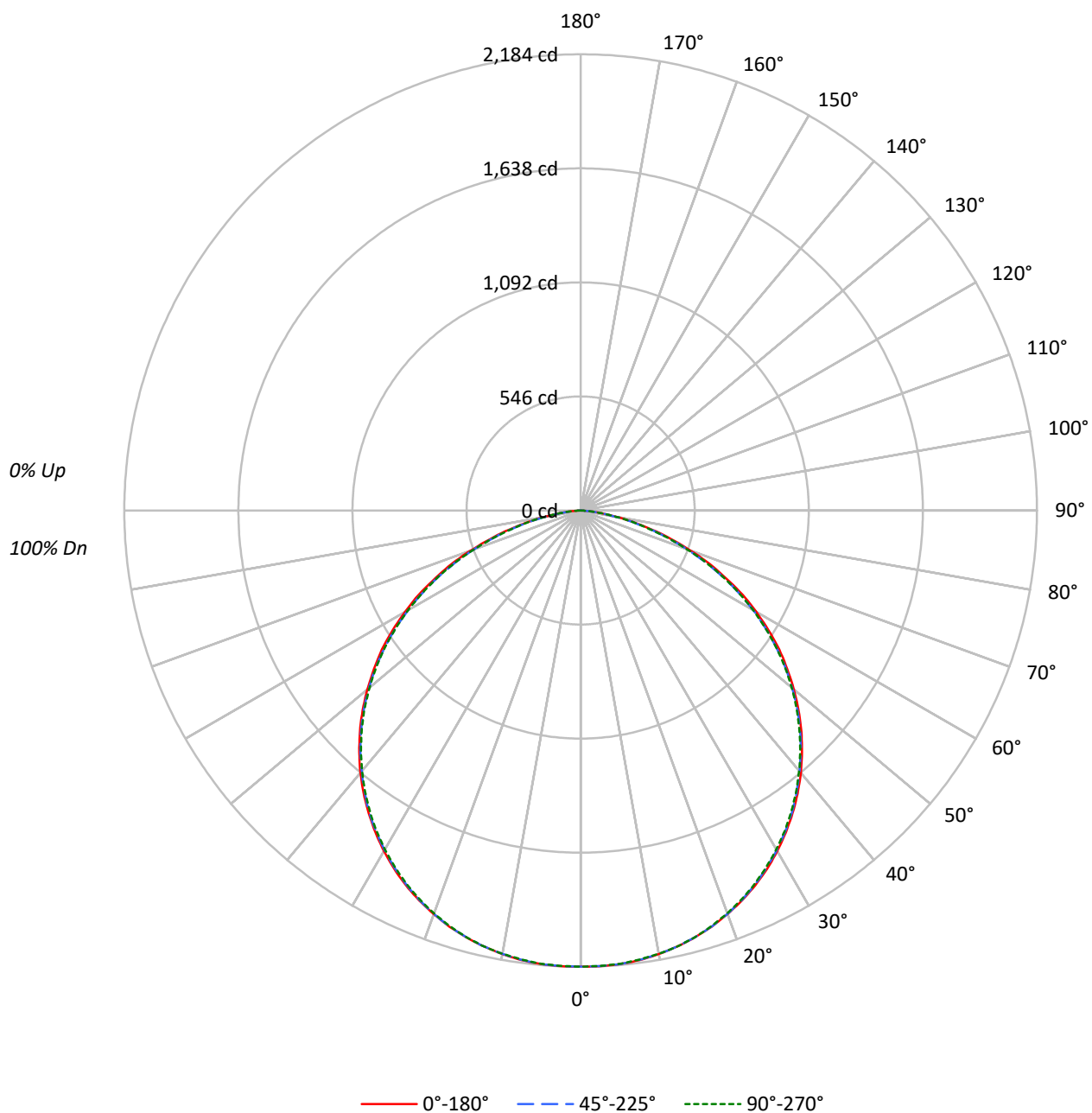
Lumens per Lamp: N/A
Luminaire Lumens: 6171.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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: P974942

CATALOG NUMBER: FLR2-24-80HE-L940-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974942

CATALOG NUMBER: FLR2-24-80HE-L940-CP375

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°	2938	2938	2938
5°	2944	2944	2942
10°	2946	2945	2944
15°	2947	2946	2946
20°	2944	2942	2938
25°	2938	2932	2928
30°	2925	2916	2910
35°	2906	2898	2888
40°	2880	2862	2858
45°	2843	2826	2817
50°	2790	2768	2760
55°	2724	2685	2681
60°	2610	2564	2564
65°	2442	2385	2392
70°	2198	2130	2124
75°	1845	1772	1763
80°	1347	1281	1336
85°	763	701	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2843 cd/sqm

TEST NUMBER: P974942

CATALOG NUMBER: FLR2-24-80HE-L940-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.3	3.4
10°-20°	597.1	9.7
20°-30°	910.4	14.8
30°-40°	1103.0	17.9
40°-50°	1145.7	18.6
50°-60°	1024.9	16.6
60°-70°	747.0	12.1
70°-80°	369.9	6.0
80°-90°	66.1	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°	1714.7	27.8
0°-40°	2817.6	45.7
0°-60°	4988.2	80.8
0°-90°	6171.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6171.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2180	2180	2180	2180	2178	207
15°	2115	2115	2115	2116	2115	597
25°	1979	1977	1975	1974	1972	912
35°	1769	1767	1764	1761	1758	1107
45°	1494	1491	1485	1482	1481	1151
55°	1161	1152	1145	1145	1143	1034
65°	767	761	749	752	751	760
75°	355	349	341	347	339	378
85°	49	45	45	46	46	68
90°	0	0	0	0	0	

TEST NUMBER: P974942

CATALOG NUMBER: FLR2-24-80HE-L940-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2183.5	2183.5	2183.5	2183.5	2183.5
2.5°	2183.5	2182.7	2182.7	2183.5	2181.9
5°	2179.6	2180.4	2179.6	2179.6	2178.0
7.5°	2171.0	2170.2	2169.4	2170.2	2167.8
10°	2156.1	2156.1	2155.3	2156.1	2154.5
12.5°	2138.1	2138.1	2138.1	2138.8	2138.1
15°	2115.3	2114.6	2114.6	2116.1	2114.6
17.5°	2088.7	2087.9	2087.9	2087.1	2085.6
20°	2055.8	2055.8	2055.0	2054.2	2051.9
22.5°	2020.5	2019.8	2017.4	2017.4	2014.3
25°	1979.0	1976.7	1975.1	1974.3	1972.0
27.5°	1933.6	1930.4	1928.1	1926.5	1924.2
30°	1882.7	1879.5	1877.2	1874.8	1873.3
32.5°	1827.8	1826.2	1822.3	1821.5	1818.4
35°	1769.1	1766.7	1764.4	1761.2	1758.1
37.5°	1706.4	1704.0	1698.5	1697.0	1694.6
40°	1639.8	1636.6	1629.6	1629.6	1627.2
42.5°	1568.5	1565.4	1560.7	1557.5	1556.0
45°	1494.1	1490.9	1485.4	1482.3	1480.7
47.5°	1414.9	1412.6	1406.3	1404.0	1401.6
50°	1332.7	1329.5	1322.5	1320.9	1318.6
52.5°	1246.5	1244.9	1235.5	1234.7	1232.4
55°	1161.1	1152.5	1144.6	1144.6	1143.1
57.5°	1067.1	1060.8	1050.6	1050.6	1049.1
60°	969.9	964.4	952.7	954.3	952.7
62.5°	875.1	863.4	852.4	857.1	853.2
65°	767.0	760.7	749.0	752.1	751.3
67.5°	668.3	656.5	645.6	651.8	648.7
70°	558.6	552.3	541.4	547.6	539.8
72.5°	455.2	449.7	438.7	445.8	438.0
75°	354.9	349.4	340.8	347.1	339.2
77.5°	260.1	256.2	248.4	254.6	256.2
80°	173.9	169.2	165.3	170.8	172.4
82.5°	101.8	98.7	97.1	97.9	101.8
85°	49.4	45.4	45.4	46.2	46.2
87.5°	13.3	11.8	13.3	14.1	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)