

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: P974943

Luminaire Tested: FLR2-24-90HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974943
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: FLR2-24-90HE-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

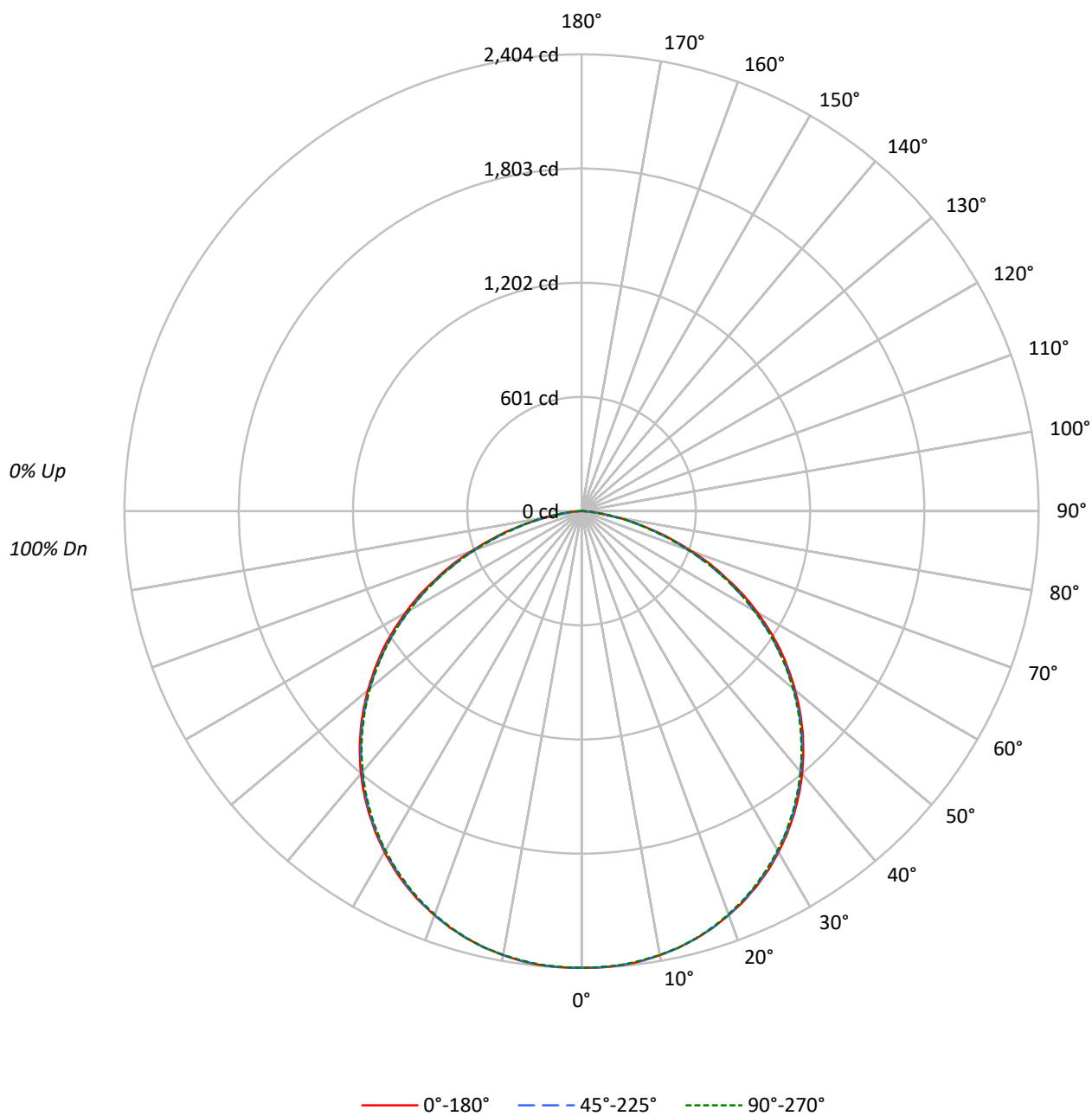
Lumens per Lamp: N/A
Luminaire Lumens: 6793.9 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.3
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

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Luminous Intensity Polar Plot



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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°	3234	3234	3234
5°	3241	3241	3239
10°	3243	3242	3241
15°	3244	3243	3243
20°	3241	3239	3234
25°	3234	3228	3223
30°	3220	3211	3204
35°	3199	3190	3179
40°	3171	3151	3146
45°	3130	3112	3102
50°	3071	3048	3039
55°	2998	2956	2952
60°	2873	2822	2822
65°	2688	2625	2633
70°	2419	2345	2338
75°	2031	1951	1942
80°	1484	1410	1471
85°	838	772	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	3.4
10°-20°	657.3	9.7
20°-30°	1002.2	14.8
30°-40°	1214.2	17.9
40°-50°	1261.3	18.6
50°-60°	1128.3	16.6
60°-70°	822.3	12.1
70°-80°	407.3	6.0
80°-90°	72.8	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°	1887.7	27.8
0°-40°	3101.9	45.7
0°-60°	5491.5	80.8
0°-90°	6793.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6793.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2404	2404	2404	2404	2404	
5°	2400	2400	2400	2400	2398	228
15°	2329	2328	2328	2330	2328	658
25°	2179	2176	2174	2174	2171	1004
35°	1948	1945	1942	1939	1936	1218
45°	1645	1641	1635	1632	1630	1268
55°	1278	1269	1260	1260	1258	1139
65°	844	838	825	828	827	837
75°	391	385	375	382	374	417
85°	54	50	50	51	51	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2403.8	2403.8	2403.8	2403.8	2403.8
2.5°	2403.8	2402.9	2402.9	2403.8	2402.1
5°	2399.5	2400.3	2399.5	2399.5	2397.8
7.5°	2390.0	2389.1	2388.3	2389.1	2386.5
10°	2373.6	2373.6	2372.7	2373.6	2371.9
12.5°	2353.8	2353.8	2353.8	2354.6	2353.8
15°	2328.8	2327.9	2327.9	2329.6	2327.9
17.5°	2299.4	2298.6	2298.6	2297.7	2296.0
20°	2263.2	2263.2	2262.3	2261.5	2258.9
22.5°	2224.4	2223.5	2220.9	2220.9	2217.5
25°	2178.7	2176.1	2174.4	2173.5	2170.9
27.5°	2128.7	2125.2	2122.6	2120.9	2118.3
30°	2072.6	2069.1	2066.6	2064.0	2062.2
32.5°	2012.2	2010.5	2006.2	2005.3	2001.9
35°	1947.5	1944.9	1942.4	1938.9	1935.5
37.5°	1878.5	1875.9	1869.9	1868.2	1865.6
40°	1805.2	1801.8	1794.0	1794.0	1791.4
42.5°	1726.7	1723.3	1718.1	1714.7	1712.9
45°	1644.8	1641.3	1635.3	1631.9	1630.1
47.5°	1557.7	1555.1	1548.2	1545.6	1543.0
50°	1467.1	1463.7	1455.9	1454.2	1451.6
52.5°	1372.2	1370.5	1360.2	1359.3	1356.7
55°	1278.2	1268.7	1260.1	1260.1	1258.4
57.5°	1174.7	1167.8	1156.6	1156.6	1154.9
60°	1067.8	1061.7	1048.8	1050.5	1048.8
62.5°	963.4	950.5	938.4	943.6	939.3
65°	844.4	837.5	824.6	828.0	827.1
67.5°	735.7	722.8	710.7	717.6	714.2
70°	615.0	608.1	596.0	602.9	594.3
72.5°	501.1	495.1	483.0	490.8	482.1
75°	390.7	384.7	375.2	382.1	373.5
77.5°	286.4	282.0	273.4	280.3	282.0
80°	191.5	186.3	182.0	188.0	189.8
82.5°	112.1	108.7	107.0	107.8	112.1
85°	54.3	50.0	50.0	50.9	50.9
87.5°	14.7	12.9	14.7	15.5	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)