

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: P975097

Luminaire Tested: FLR2-24-90HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975097
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

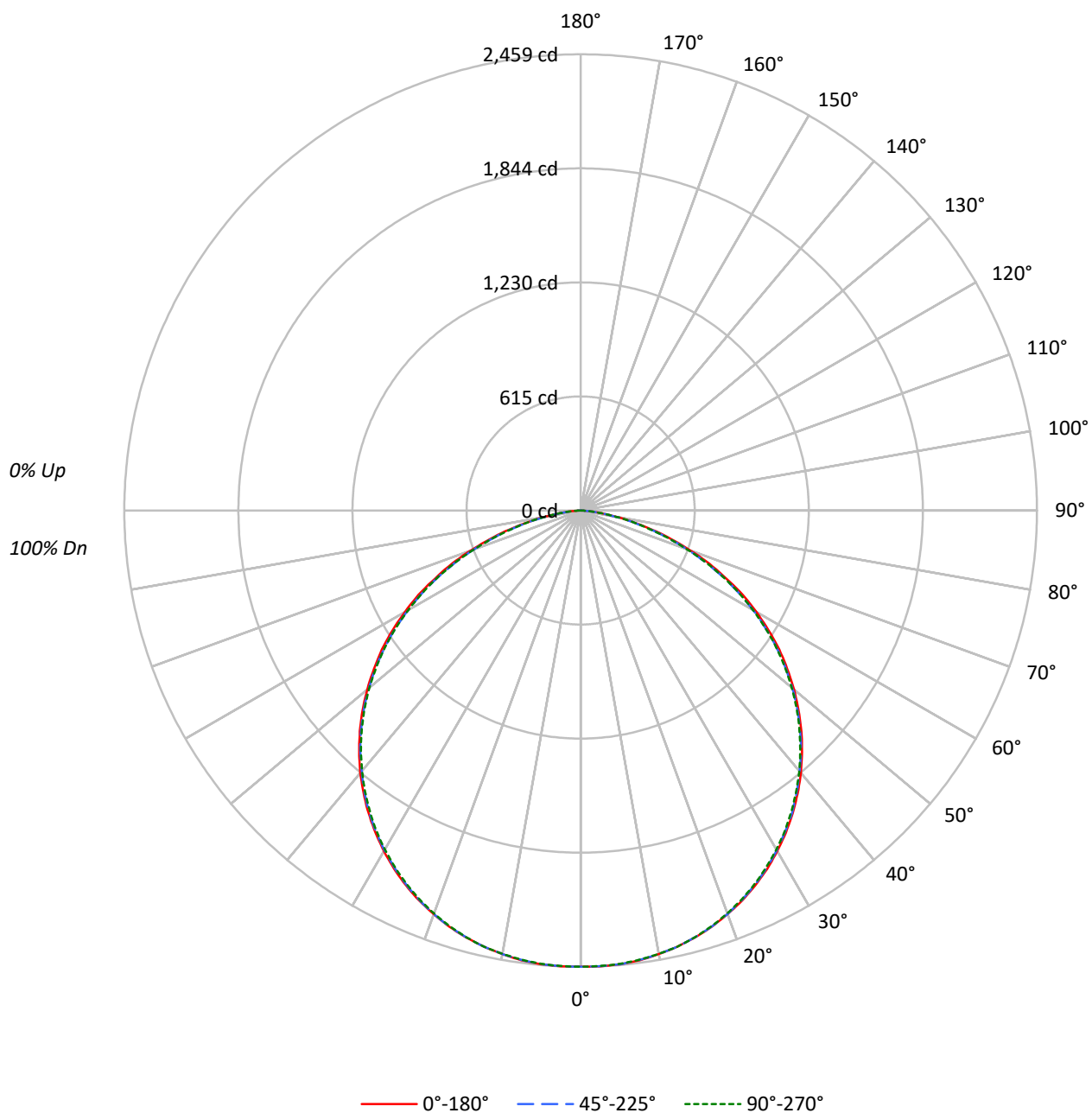
Lumens per Lamp: N/A
Luminaire Lumens: 6950.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		85
2	99	91	85	79	97	89	83	78	86	81	76		83	78	75		71
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		60
4	83	71	62	56	81	70	62	55	67	60	55		65	59	54		51
5	76	64	55	48	74	62	54	48	60	53	47		58	52	47		44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		34
8	61	47	39	33	59	47	38	33	45	38	33		44	37	32		30
9	57	43	35	30	55	43	35	30	42	34	29		41	34	29		27
10	53	40	32	27	52	39	32	27	38	31	27		38	31	26		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3309	3309	3309
5°	3315	3315	3313
10°	3318	3316	3315
15°	3318	3317	3317
20°	3315	3314	3309
25°	3309	3302	3297
30°	3294	3285	3278
35°	3272	3264	3252
40°	3244	3223	3219
45°	3202	3183	3173
50°	3141	3118	3108
55°	3067	3024	3020
60°	2939	2887	2887
65°	2750	2685	2694
70°	2475	2399	2391
75°	2078	1995	1986
80°	1518	1443	1504
85°	858	790	804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3202 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	3.4
10°-20°	672.4	9.7
20°-30°	1025.2	14.8
30°-40°	1242.2	17.9
40°-50°	1290.3	18.6
50°-60°	1154.2	16.6
60°-70°	841.2	12.1
70°-80°	416.6	6.0
80°-90°	74.5	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°	1931.1	27.8
0°-40°	3173.2	45.7
0°-60°	5617.7	80.8
0°-90°	6950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2459	2459	2459	2459	2459	
5°	2455	2456	2455	2455	2453	233
15°	2382	2381	2381	2383	2381	673
25°	2229	2226	2224	2224	2221	1027
35°	1992	1990	1987	1984	1980	1246
45°	1683	1679	1673	1669	1668	1297
55°	1308	1298	1289	1289	1287	1165
65°	864	857	844	847	846	856
75°	400	394	384	391	382	426
85°	56	51	51	52	52	77
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2459.1	2459.1	2459.1	2459.1	2459.1
2.5°	2459.1	2458.2	2458.2	2459.1	2457.3
5°	2454.6	2455.5	2454.6	2454.6	2452.9
7.5°	2444.9	2444.1	2443.2	2444.1	2441.4
10°	2428.2	2428.2	2427.3	2428.2	2426.4
12.5°	2407.9	2407.9	2407.9	2408.8	2407.9
15°	2382.3	2381.4	2381.4	2383.2	2381.4
17.5°	2352.3	2351.4	2351.4	2350.5	2348.8
20°	2315.2	2315.2	2314.4	2313.5	2310.8
22.5°	2275.5	2274.6	2272.0	2272.0	2268.5
25°	2228.8	2226.1	2224.4	2223.5	2220.8
27.5°	2177.6	2174.1	2171.4	2169.7	2167.0
30°	2120.2	2116.7	2114.1	2111.4	2109.7
32.5°	2058.5	2056.7	2052.3	2051.4	2047.9
35°	1992.3	1989.7	1987.0	1983.5	1980.0
37.5°	1921.7	1919.1	1912.9	1911.1	1908.5
40°	1846.7	1843.2	1835.2	1835.2	1832.6
42.5°	1766.4	1762.9	1757.6	1754.1	1752.3
45°	1682.6	1679.1	1672.9	1669.4	1667.6
47.5°	1593.5	1590.8	1583.8	1581.1	1578.5
50°	1500.8	1497.3	1489.4	1487.6	1485.0
52.5°	1403.8	1402.0	1391.4	1390.6	1387.9
55°	1307.6	1297.9	1289.1	1289.1	1287.3
57.5°	1201.7	1194.7	1183.2	1183.2	1181.4
60°	1092.3	1086.1	1072.9	1074.7	1072.9
62.5°	985.6	972.3	960.0	965.3	960.9
65°	863.8	856.7	843.5	847.0	846.2
67.5°	752.6	739.4	727.0	734.1	730.6
70°	629.1	622.0	609.7	616.7	607.9
72.5°	512.6	506.5	494.1	502.0	493.2
75°	399.7	393.5	383.8	390.9	382.0
77.5°	292.9	288.5	279.7	286.8	288.5
80°	195.9	190.6	186.2	192.3	194.1
82.5°	114.7	111.2	109.4	110.3	114.7
85°	55.6	51.2	51.2	52.1	52.1
87.5°	15.0	13.2	15.0	15.9	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)