

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: P974805

Luminaire Tested: FLR2-24-40HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974805
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: FLR2-24-40HE-L935-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

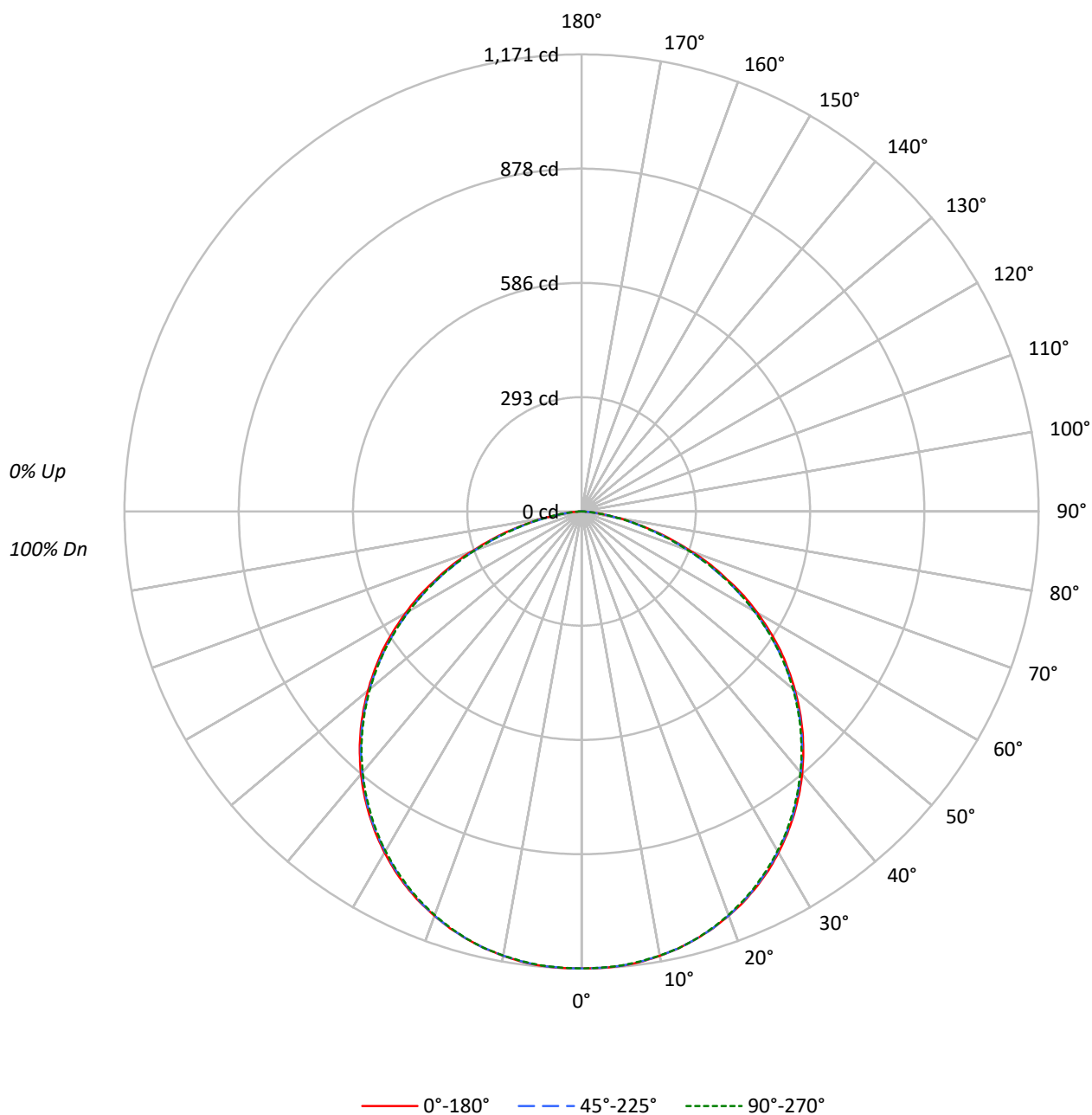
Lumens per Lamp: N/A
Luminaire Lumens: 3309.2 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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°	1575	1575	1575
5°	1579	1579	1577
10°	1580	1579	1578
15°	1580	1579	1579
20°	1578	1578	1575
25°	1575	1572	1570
30°	1568	1564	1561
35°	1558	1554	1548
40°	1544	1535	1533
45°	1525	1516	1511
50°	1496	1485	1480
55°	1460	1440	1438
60°	1400	1375	1375
65°	1309	1279	1283
70°	1178	1142	1139
75°	989	950	946
80°	723	687	716
85°	409	377	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.4
10°-20°	320.2	9.7
20°-30°	488.2	14.8
30°-40°	591.4	17.9
40°-50°	614.4	18.6
50°-60°	549.6	16.6
60°-70°	400.6	12.1
70°-80°	198.4	6.0
80°-90°	35.5	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°	919.5	27.8
0°-40°	1510.9	45.7
0°-60°	2674.9	80.8
0°-90°	3309.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1169	1169	1169	1169	1168	111
15°	1134	1134	1134	1135	1134	320
25°	1061	1060	1059	1059	1057	489
35°	949	947	946	944	943	593
45°	801	800	796	795	794	617
55°	623	618	614	614	613	555
65°	411	408	402	403	403	408
75°	190	187	183	186	182	203
85°	26	24	24	25	25	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.9	1170.9	1170.9	1170.9	1170.9
2.5°	1170.9	1170.4	1170.4	1170.9	1170.0
5°	1168.8	1169.2	1168.8	1168.8	1167.9
7.5°	1164.1	1163.7	1163.3	1163.7	1162.5
10°	1156.2	1156.2	1155.7	1156.2	1155.3
12.5°	1146.5	1146.5	1146.5	1146.9	1146.5
15°	1134.3	1133.9	1133.9	1134.7	1133.9
17.5°	1120.0	1119.6	1119.6	1119.2	1118.4
20°	1102.4	1102.4	1102.0	1101.5	1100.3
22.5°	1083.5	1083.1	1081.8	1081.8	1080.1
25°	1061.2	1060.0	1059.1	1058.7	1057.4
27.5°	1036.8	1035.2	1033.9	1033.1	1031.8
30°	1009.5	1007.9	1006.6	1005.3	1004.5
32.5°	980.1	979.3	977.2	976.8	975.1
35°	948.6	947.4	946.1	944.4	942.7
37.5°	915.0	913.8	910.8	910.0	908.7
40°	879.3	877.6	873.8	873.8	872.6
42.5°	841.1	839.4	836.9	835.2	834.4
45°	801.2	799.5	796.5	794.9	794.0
47.5°	758.7	757.5	754.1	752.8	751.6
50°	714.6	712.9	709.2	708.3	707.1
52.5°	668.4	667.6	662.5	662.1	660.8
55°	622.6	618.0	613.8	613.8	613.0
57.5°	572.2	568.8	563.4	563.4	562.5
60°	520.1	517.2	510.9	511.7	510.9
62.5°	469.3	463.0	457.1	459.6	457.5
65°	411.3	407.9	401.6	403.3	402.9
67.5°	358.4	352.1	346.2	349.5	347.9
70°	299.5	296.2	290.3	293.7	289.5
72.5°	244.1	241.1	235.3	239.0	234.8
75°	190.3	187.4	182.8	186.1	181.9
77.5°	139.5	137.4	133.2	136.5	137.4
80°	93.3	90.7	88.6	91.6	92.4
82.5°	54.6	52.9	52.1	52.5	54.6
85°	26.5	24.4	24.4	24.8	24.8
87.5°	7.1	6.3	7.1	7.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)