

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: P974640

Luminaire Tested: FLR2-24-40HE-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974640
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-L930-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

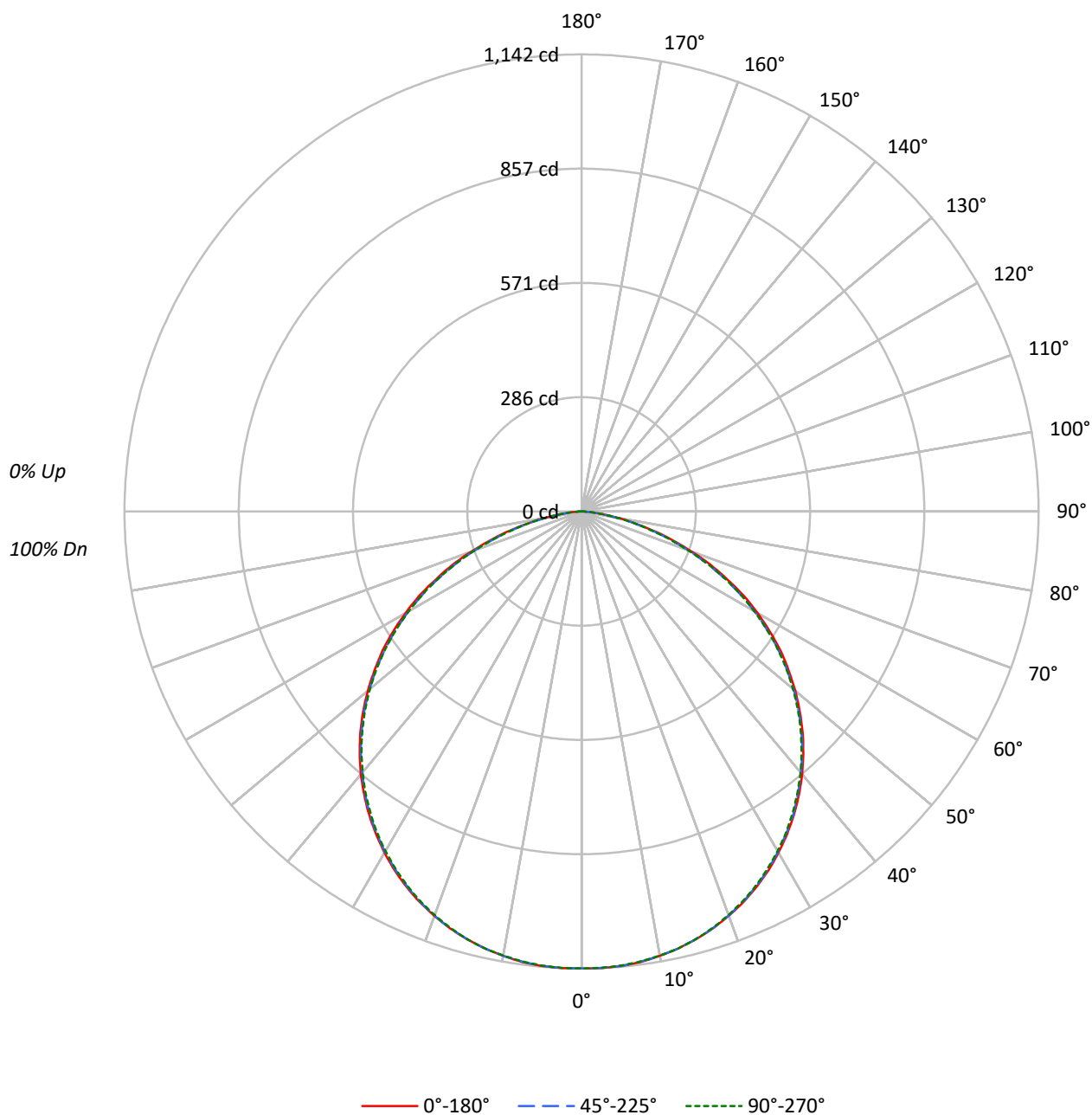
Lumens per Lamp: N/A
Luminaire Lumens: 3227.9 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1537	1537	1537
5°	1540	1540	1539
10°	1541	1540	1540
15°	1541	1541	1541
20°	1540	1539	1537
25°	1537	1534	1531
30°	1530	1526	1522
35°	1520	1516	1510
40°	1506	1497	1495
45°	1487	1478	1474
50°	1459	1448	1444
55°	1425	1404	1403
60°	1365	1341	1341
65°	1277	1247	1251
70°	1149	1114	1111
75°	965	927	922
80°	705	670	699
85°	398	367	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.4
10°-20°	312.3	9.7
20°-30°	476.2	14.8
30°-40°	576.9	17.9
40°-50°	599.3	18.6
50°-60°	536.1	16.6
60°-70°	390.7	12.1
70°-80°	193.5	6.0
80°-90°	34.6	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°	896.9	27.8
0°-40°	1473.8	45.7
0°-60°	2609.1	80.8
0°-90°	3227.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1140	1140	1140	1139	108
15°	1106	1106	1106	1107	1106	312
25°	1035	1034	1033	1033	1031	477
35°	925	924	923	921	920	579
45°	782	780	777	775	774	602
55°	607	603	599	599	598	541
65°	401	398	392	393	393	398
75°	186	183	178	182	177	198
85°	26	24	24	24	24	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1142.1	1142.1	1142.1	1142.1	1142.1
2.5°	1142.1	1141.7	1141.7	1142.1	1141.3
5°	1140.0	1140.4	1140.0	1140.0	1139.2
7.5°	1135.5	1135.1	1134.7	1135.1	1133.9
10°	1127.7	1127.7	1127.3	1127.7	1126.9
12.5°	1118.3	1118.3	1118.3	1118.7	1118.3
15°	1106.4	1106.0	1106.0	1106.8	1106.0
17.5°	1092.5	1092.1	1092.1	1091.7	1090.9
20°	1075.3	1075.3	1074.9	1074.5	1073.2
22.5°	1056.8	1056.4	1055.2	1055.2	1053.6
25°	1035.1	1033.9	1033.1	1032.7	1031.4
27.5°	1011.4	1009.7	1008.5	1007.7	1006.4
30°	984.7	983.1	981.9	980.6	979.8
32.5°	956.0	955.2	953.2	952.8	951.1
35°	925.3	924.1	922.8	921.2	919.6
37.5°	892.5	891.3	888.4	887.6	886.4
40°	857.7	856.1	852.4	852.4	851.1
42.5°	820.4	818.8	816.3	814.7	813.8
45°	781.5	779.8	777.0	775.3	774.5
47.5°	740.1	738.9	735.6	734.3	733.1
50°	697.1	695.4	691.7	690.9	689.7
52.5°	652.0	651.2	646.2	645.8	644.6
55°	607.3	602.8	598.7	598.7	597.9
57.5°	558.1	554.9	549.5	549.5	548.7
60°	507.3	504.5	498.3	499.1	498.3
62.5°	457.7	451.6	445.9	448.3	446.3
65°	401.2	397.9	391.8	393.4	393.0
67.5°	349.6	343.4	337.7	340.9	339.3
70°	292.2	288.9	283.2	286.4	282.3
72.5°	238.1	235.2	229.5	233.2	229.1
75°	185.6	182.8	178.3	181.5	177.4
77.5°	136.1	134.0	129.9	133.2	134.0
80°	91.0	88.5	86.5	89.3	90.2
82.5°	53.3	51.6	50.8	51.2	53.3
85°	25.8	23.8	23.8	24.2	24.2
87.5°	7.0	6.1	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)