

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: P974915

Luminaire Tested: FLR2-24-40HE-L940-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974915
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-L940-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

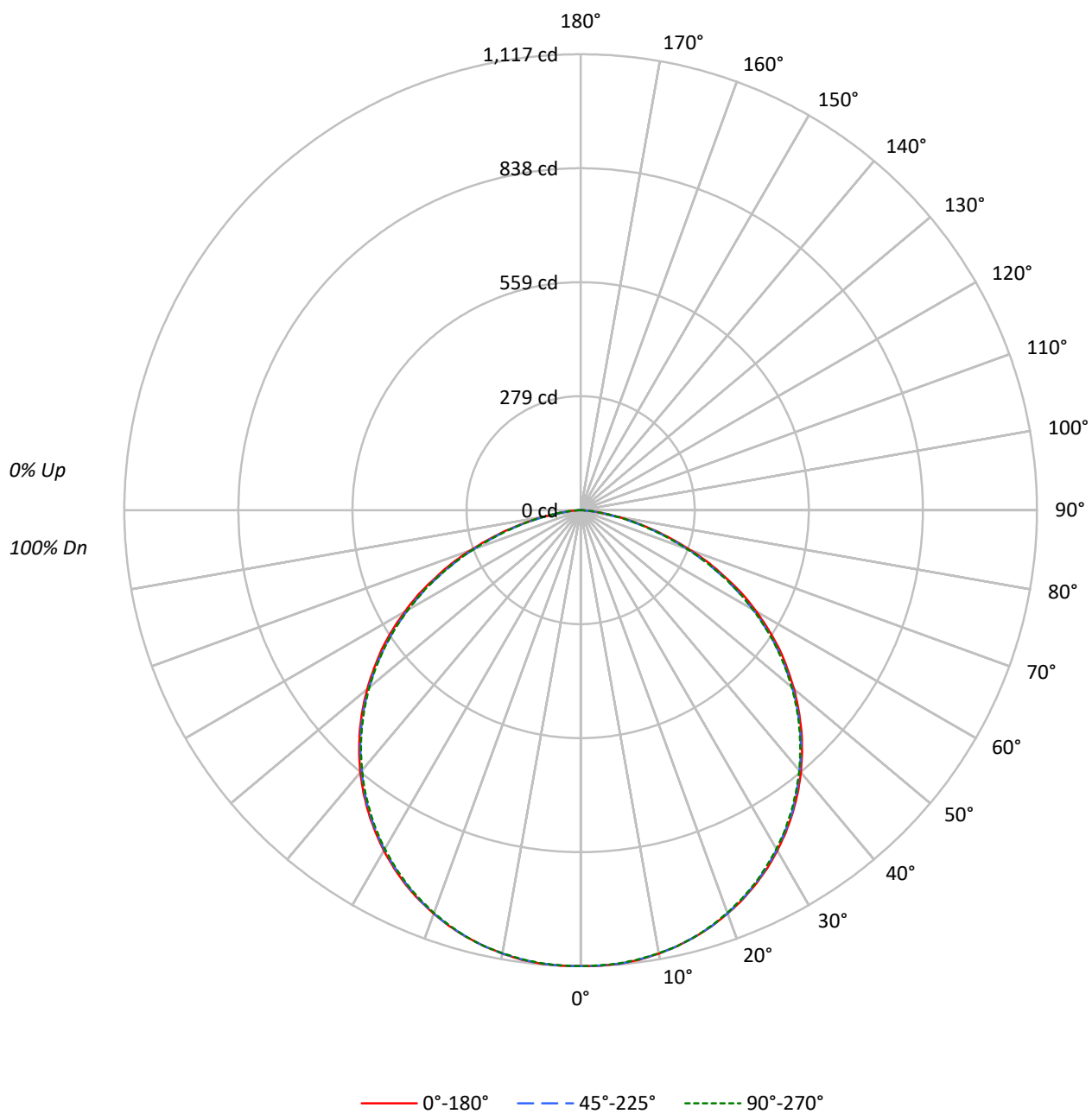
Lumens per Lamp: N/A
Luminaire Lumens: 3157.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1503	1503	1503
5°	1506	1506	1505
10°	1507	1507	1506
15°	1507	1507	1507
20°	1506	1505	1503
25°	1503	1500	1498
30°	1496	1492	1489
35°	1487	1483	1477
40°	1473	1464	1462
45°	1455	1446	1442
50°	1427	1416	1412
55°	1393	1374	1372
60°	1335	1312	1312
65°	1249	1220	1224
70°	1124	1090	1087
75°	944	907	902
80°	690	656	683
85°	391	358	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1455 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.4
10°-20°	305.5	9.7
20°-30°	465.7	14.8
30°-40°	564.3	17.9
40°-50°	586.1	18.6
50°-60°	524.3	16.6
60°-70°	382.2	12.1
70°-80°	189.3	6.0
80°-90°	33.8	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°	877.3	27.8
0°-40°	1441.5	45.7
0°-60°	2552.0	80.8
0°-90°	3157.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1115	1116	1115	1115	1114	106
15°	1082	1082	1082	1083	1082	306
25°	1012	1011	1010	1010	1009	467
35°	905	904	903	901	900	566
45°	764	763	760	758	758	589
55°	594	590	586	586	585	529
65°	392	389	383	385	384	389
75°	182	179	174	178	174	194
85°	25	23	23	24	24	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.1	1117.1	1117.1	1117.1	1117.1
2.5°	1117.1	1116.7	1116.7	1117.1	1116.3
5°	1115.1	1115.5	1115.1	1115.1	1114.3
7.5°	1110.7	1110.3	1109.9	1110.3	1109.1
10°	1103.1	1103.1	1102.7	1103.1	1102.3
12.5°	1093.9	1093.9	1093.9	1094.3	1093.9
15°	1082.2	1081.8	1081.8	1082.6	1081.8
17.5°	1068.6	1068.2	1068.2	1067.8	1067.0
20°	1051.8	1051.8	1051.4	1051.0	1049.8
22.5°	1033.7	1033.3	1032.1	1032.1	1030.5
25°	1012.5	1011.3	1010.5	1010.1	1008.9
27.5°	989.2	987.6	986.4	985.6	984.4
30°	963.2	961.6	960.4	959.2	958.4
32.5°	935.1	934.3	932.3	931.9	930.3
35°	905.1	903.9	902.7	901.1	899.5
37.5°	873.0	871.8	869.0	868.2	867.0
40°	838.9	837.3	833.7	833.7	832.5
42.5°	802.5	800.8	798.4	796.8	796.0
45°	764.4	762.8	760.0	758.4	757.6
47.5°	723.9	722.7	719.5	718.3	717.1
50°	681.8	680.2	676.6	675.8	674.6
52.5°	637.7	636.9	632.1	631.7	630.5
55°	594.0	589.6	585.6	585.6	584.8
57.5°	545.9	542.7	537.5	537.5	536.7
60°	496.2	493.4	487.4	488.2	487.4
62.5°	447.7	441.7	436.1	438.5	436.5
65°	392.4	389.2	383.2	384.8	384.4
67.5°	341.9	335.9	330.3	333.5	331.9
70°	285.8	282.6	277.0	280.2	276.2
72.5°	232.9	230.1	224.5	228.1	224.1
75°	181.6	178.8	174.4	177.6	173.6
77.5°	133.1	131.1	127.1	130.3	131.1
80°	89.0	86.6	84.6	87.4	88.2
82.5°	52.1	50.5	49.7	50.1	52.1
85°	25.3	23.2	23.2	23.6	23.6
87.5°	6.8	6.0	6.8	7.2	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)