

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: P974541

Luminaire Tested: FLR2-24-40HE-L830-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974541
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-L830-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

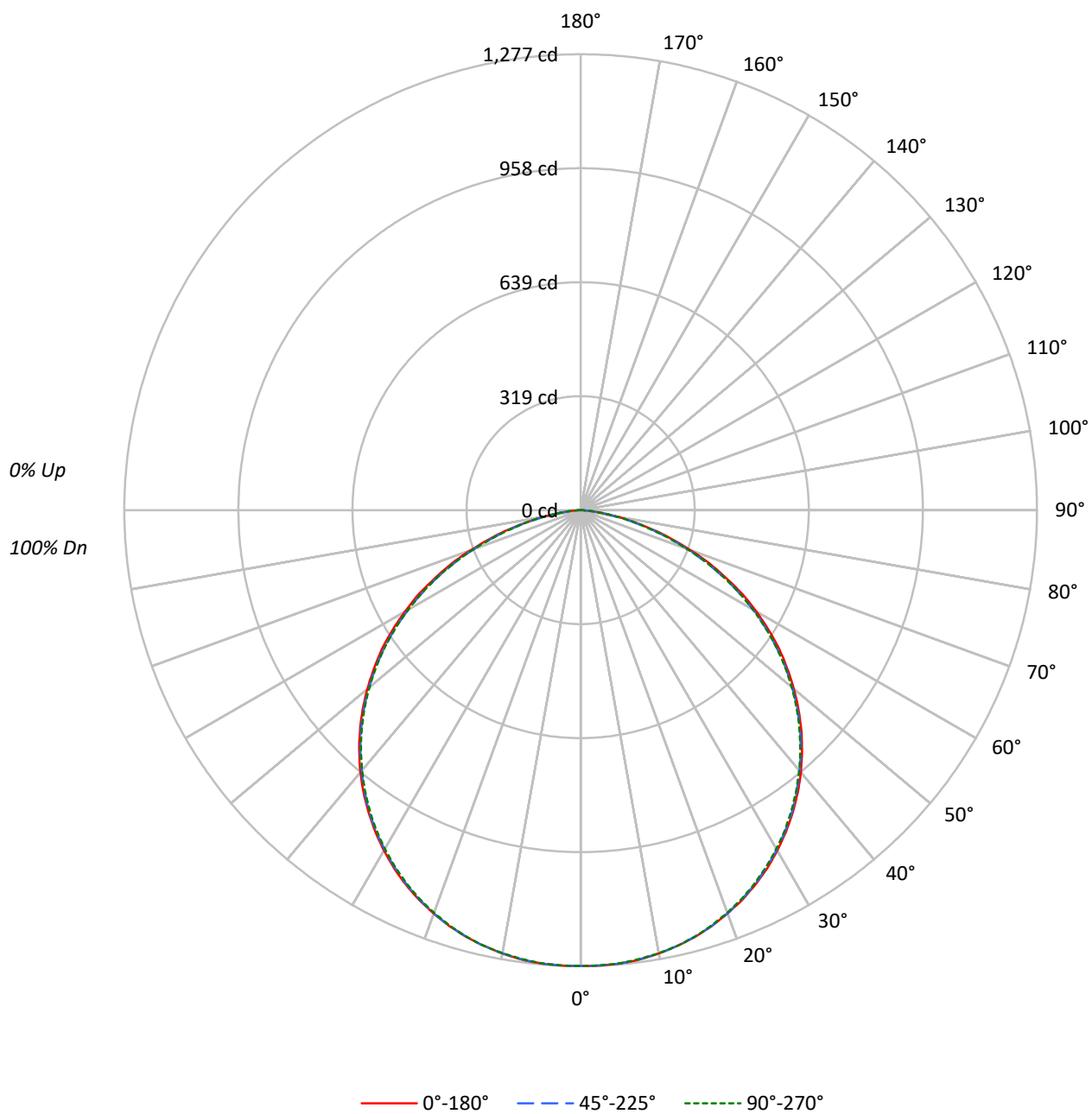
Lumens per Lamp: N/A
Luminaire Lumens: 3608.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1718	1718	1718
5°	1721	1721	1720
10°	1723	1722	1721
15°	1723	1722	1722
20°	1721	1721	1718
25°	1718	1715	1712
30°	1710	1705	1702
35°	1699	1695	1689
40°	1684	1674	1671
45°	1662	1653	1648
50°	1631	1619	1614
55°	1593	1570	1568
60°	1526	1499	1499
65°	1428	1394	1399
70°	1285	1245	1242
75°	1079	1036	1031
80°	788	749	781
85°	446	411	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	3.4
10°-20°	349.1	9.7
20°-30°	532.3	14.8
30°-40°	645.0	17.9
40°-50°	669.9	18.6
50°-60°	599.3	16.6
60°-70°	436.8	12.1
70°-80°	216.3	6.0
80°-90°	38.7	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°	1002.7	27.8
0°-40°	1647.6	45.7
0°-60°	2916.9	80.8
0°-90°	3608.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3608.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1274	1275	1274	1274	1274	121
15°	1237	1236	1236	1237	1236	349
25°	1157	1156	1155	1154	1153	533
35°	1034	1033	1032	1030	1028	647
45°	874	872	869	867	866	673
55°	679	674	669	669	668	605
65°	448	445	438	440	439	445
75°	208	204	199	203	198	221
85°	29	27	27	27	27	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.8	1276.8	1276.8	1276.8	1276.8
2.5°	1276.8	1276.4	1276.4	1276.8	1275.9
5°	1274.5	1275.0	1274.5	1274.5	1273.6
7.5°	1269.5	1269.0	1268.6	1269.0	1267.7
10°	1260.8	1260.8	1260.3	1260.8	1259.9
12.5°	1250.2	1250.2	1250.2	1250.7	1250.2
15°	1237.0	1236.5	1236.5	1237.4	1236.5
17.5°	1221.4	1220.9	1220.9	1220.5	1219.5
20°	1202.1	1202.1	1201.7	1201.2	1199.8
22.5°	1181.5	1181.1	1179.7	1179.7	1177.9
25°	1157.2	1155.9	1155.0	1154.5	1153.1
27.5°	1130.7	1128.8	1127.5	1126.5	1125.2
30°	1100.9	1099.1	1097.7	1096.3	1095.4
32.5°	1068.8	1067.9	1065.6	1065.2	1063.3
35°	1034.5	1033.1	1031.7	1029.9	1028.0
37.5°	997.8	996.4	993.2	992.3	990.9
40°	958.9	957.0	952.9	952.9	951.5
42.5°	917.2	915.3	912.6	910.8	909.9
45°	873.7	871.8	868.6	866.8	865.9
47.5°	827.4	826.0	822.3	821.0	819.6
50°	779.3	777.5	773.3	772.4	771.0
52.5°	728.9	728.0	722.5	722.0	720.6
55°	679.0	673.9	669.3	669.3	668.4
57.5°	624.0	620.3	614.4	614.4	613.4
60°	567.2	564.0	557.1	558.0	557.1
62.5°	511.7	504.9	498.4	501.2	498.9
65°	448.5	444.8	438.0	439.8	439.3
67.5°	390.8	383.9	377.5	381.2	379.3
70°	326.6	323.0	316.6	320.2	315.7
72.5°	266.2	263.0	256.6	260.7	256.1
75°	207.5	204.3	199.3	203.0	198.4
77.5°	152.1	149.8	145.2	148.9	149.8
80°	101.7	99.0	96.7	99.9	100.8
82.5°	59.6	57.7	56.8	57.3	59.6
85°	28.9	26.6	26.6	27.0	27.0
87.5°	7.8	6.9	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)