

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: P974573

Luminaire Tested: FLR2-24-35HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974573
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: FLR2-24-35HE-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

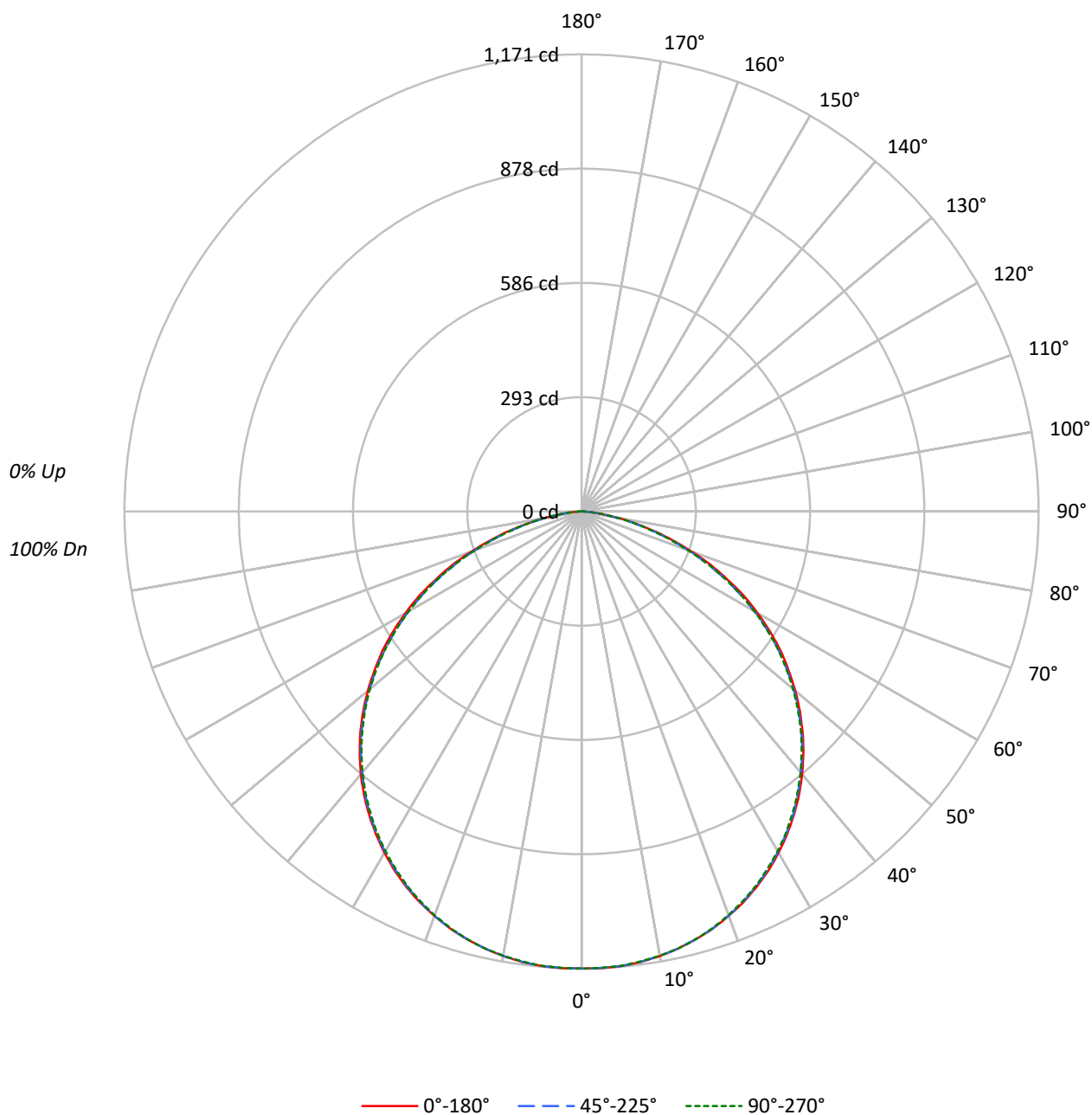
Lumens per Lamp: N/A
Luminaire Lumens: 3310.3 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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°	1576	1576	1576
5°	1579	1579	1578
10°	1580	1580	1579
15°	1581	1580	1580
20°	1579	1578	1576
25°	1576	1573	1570
30°	1569	1564	1561
35°	1559	1554	1549
40°	1545	1535	1533
45°	1525	1516	1511
50°	1496	1485	1481
55°	1461	1440	1438
60°	1400	1375	1375
65°	1310	1279	1283
70°	1179	1142	1139
75°	990	950	946
80°	723	687	717
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°	111.2	3.4
10°-20°	320.3	9.7
20°-30°	488.3	14.8
30°-40°	591.6	17.9
40°-50°	614.6	18.6
50°-60°	549.8	16.6
60°-70°	400.7	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°	919.8	27.8
0°-40°	1511.4	45.7
0°-60°	2675.8	80.8
0°-90°	3310.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1169	1170	1169	1169	1168	111
15°	1135	1134	1134	1135	1134	320
25°	1062	1060	1060	1059	1058	489
35°	949	948	946	945	943	594
45°	801	800	797	795	794	618
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°	1171.3	1171.3	1171.3	1171.3	1171.3
2.5°	1171.3	1170.8	1170.8	1171.3	1170.4
5°	1169.2	1169.6	1169.2	1169.2	1168.3
7.5°	1164.5	1164.1	1163.7	1164.1	1162.9
10°	1156.6	1156.6	1156.1	1156.6	1155.7
12.5°	1146.9	1146.9	1146.9	1147.3	1146.9
15°	1134.7	1134.3	1134.3	1135.1	1134.3
17.5°	1120.4	1120.0	1120.0	1119.6	1118.7
20°	1102.8	1102.8	1102.3	1101.9	1100.7
22.5°	1083.8	1083.4	1082.2	1082.2	1080.5
25°	1061.6	1060.3	1059.5	1059.1	1057.8
27.5°	1037.2	1035.5	1034.3	1033.4	1032.2
30°	1009.9	1008.2	1006.9	1005.7	1004.8
32.5°	980.5	979.6	977.5	977.1	975.4
35°	948.9	947.7	946.4	944.7	943.1
37.5°	915.3	914.1	911.1	910.3	909.0
40°	879.6	877.9	874.1	874.1	872.9
42.5°	841.4	839.7	837.2	835.5	834.6
45°	801.4	799.8	796.8	795.1	794.3
47.5°	759.0	757.7	754.4	753.1	751.8
50°	714.9	713.2	709.4	708.6	707.3
52.5°	668.6	667.8	662.7	662.3	661.1
55°	622.8	618.2	614.0	614.0	613.2
57.5°	572.4	569.0	563.6	563.6	562.7
60°	520.3	517.3	511.0	511.9	511.0
62.5°	469.4	463.1	457.2	459.8	457.7
65°	411.4	408.1	401.8	403.4	403.0
67.5°	358.5	352.2	346.3	349.7	348.0
70°	299.6	296.3	290.4	293.8	289.6
72.5°	244.2	241.2	235.3	239.1	234.9
75°	190.4	187.4	182.8	186.2	182.0
77.5°	139.5	137.4	133.2	136.6	137.4
80°	93.3	90.8	88.7	91.6	92.5
82.5°	54.6	53.0	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)