

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: P974562

Luminaire Tested: FLR2-24-35HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974562
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

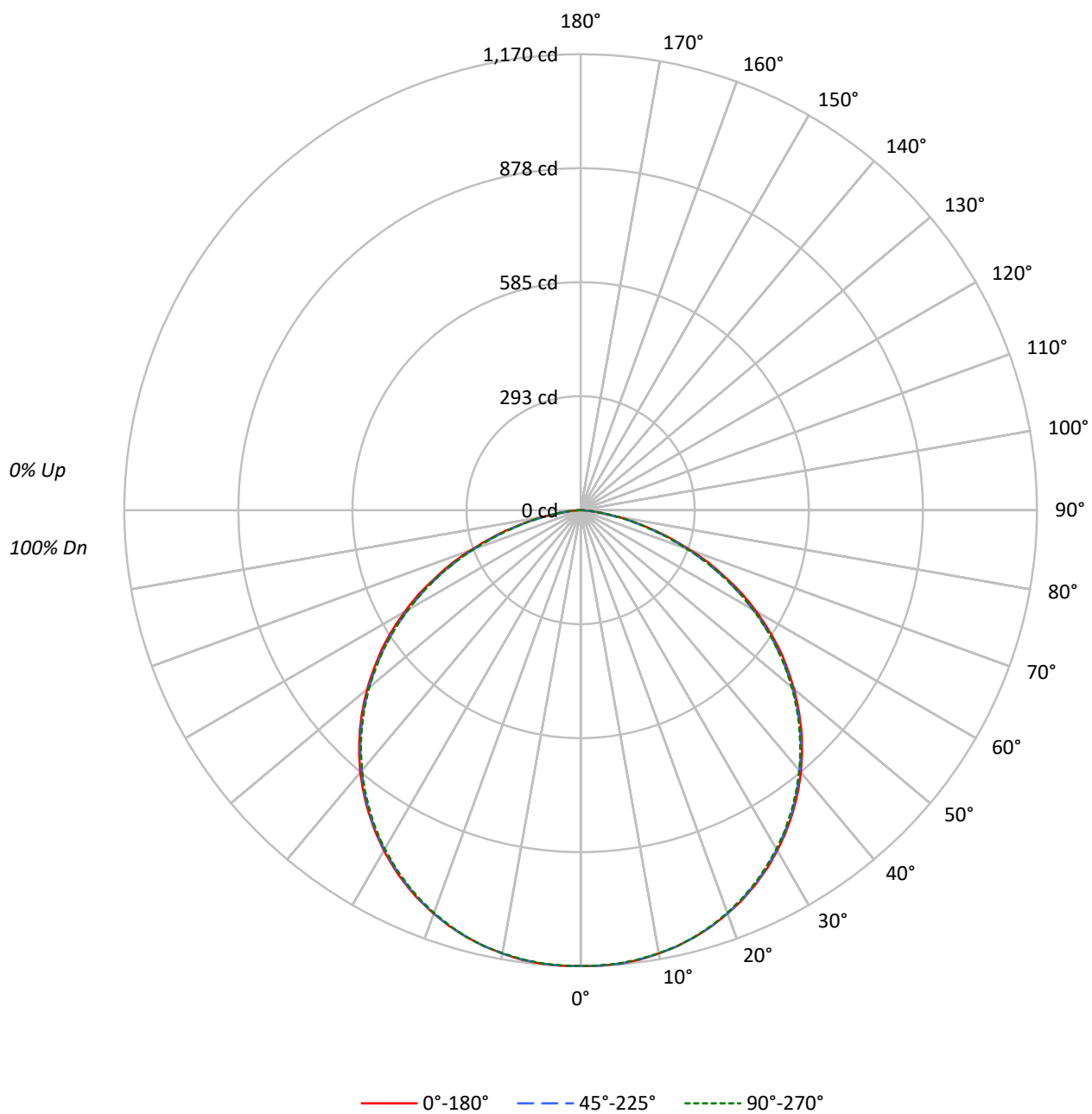
Lumens per Lamp: N/A
Luminaire Lumens: 3306.8 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1574	1574	1574
5°	1577	1577	1576
10°	1578	1578	1577
15°	1579	1578	1578
20°	1577	1577	1574
25°	1574	1571	1569
30°	1567	1563	1560
35°	1557	1553	1547
40°	1543	1534	1531
45°	1523	1515	1510
50°	1495	1483	1479
55°	1460	1439	1437
60°	1399	1374	1374
65°	1309	1278	1282
70°	1177	1141	1138
75°	989	949	945
80°	722	687	716
85°	408	375	383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1523 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.4
10°-20°	319.9	9.7
20°-30°	487.8	14.8
30°-40°	591.0	17.9
40°-50°	613.9	18.6
50°-60°	549.2	16.6
60°-70°	400.2	12.1
70°-80°	198.2	6.0
80°-90°	35.4	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°	918.8	27.8
0°-40°	1509.8	45.7
0°-60°	2672.9	80.8
0°-90°	3306.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3306.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1168	1168	1168	1168	1167	111
15°	1134	1133	1133	1134	1133	320
25°	1060	1059	1058	1058	1057	489
35°	948	947	945	944	942	593
45°	801	799	796	794	793	617
55°	622	618	613	613	612	554
65°	411	408	401	403	403	407
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°	1170.0	1170.0	1170.0	1170.0	1170.0
2.5°	1170.0	1169.6	1169.6	1170.0	1169.2
5°	1167.9	1168.3	1167.9	1167.9	1167.1
7.5°	1163.3	1162.9	1162.4	1162.9	1161.6
10°	1155.3	1155.3	1154.9	1155.3	1154.5
12.5°	1145.7	1145.7	1145.7	1146.1	1145.7
15°	1133.5	1133.1	1133.1	1133.9	1133.1
17.5°	1119.2	1118.8	1118.8	1118.4	1117.5
20°	1101.6	1101.6	1101.2	1100.7	1099.5
22.5°	1082.7	1082.3	1081.0	1081.0	1079.3
25°	1060.4	1059.2	1058.3	1057.9	1056.7
27.5°	1036.1	1034.4	1033.1	1032.3	1031.0
30°	1008.8	1007.1	1005.9	1004.6	1003.8
32.5°	979.4	978.6	976.5	976.1	974.4
35°	947.9	946.7	945.4	943.7	942.0
37.5°	914.3	913.1	910.1	909.3	908.0
40°	878.7	877.0	873.2	873.2	871.9
42.5°	840.5	838.8	836.3	834.6	833.7
45°	800.6	798.9	796.0	794.3	793.4
47.5°	758.2	756.9	753.6	752.3	751.0
50°	714.1	712.4	708.6	707.8	706.5
52.5°	667.9	667.1	662.0	661.6	660.4
55°	622.2	617.5	613.3	613.3	612.5
57.5°	571.8	568.4	563.0	563.0	562.1
60°	519.7	516.8	510.5	511.3	510.5
62.5°	468.9	462.6	456.7	459.3	457.2
65°	411.0	407.6	401.3	403.0	402.6
67.5°	358.1	351.8	345.9	349.3	347.6
70°	299.3	296.0	290.1	293.4	289.2
72.5°	243.9	241.0	235.1	238.9	234.7
75°	190.2	187.2	182.6	186.0	181.8
77.5°	139.4	137.3	133.1	136.4	137.3
80°	93.2	90.7	88.6	91.5	92.4
82.5°	54.6	52.9	52.1	52.5	54.6
85°	26.4	24.3	24.3	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)