

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: P974969

Luminaire Tested: FLR2-24-35HE-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974969
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-L850-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

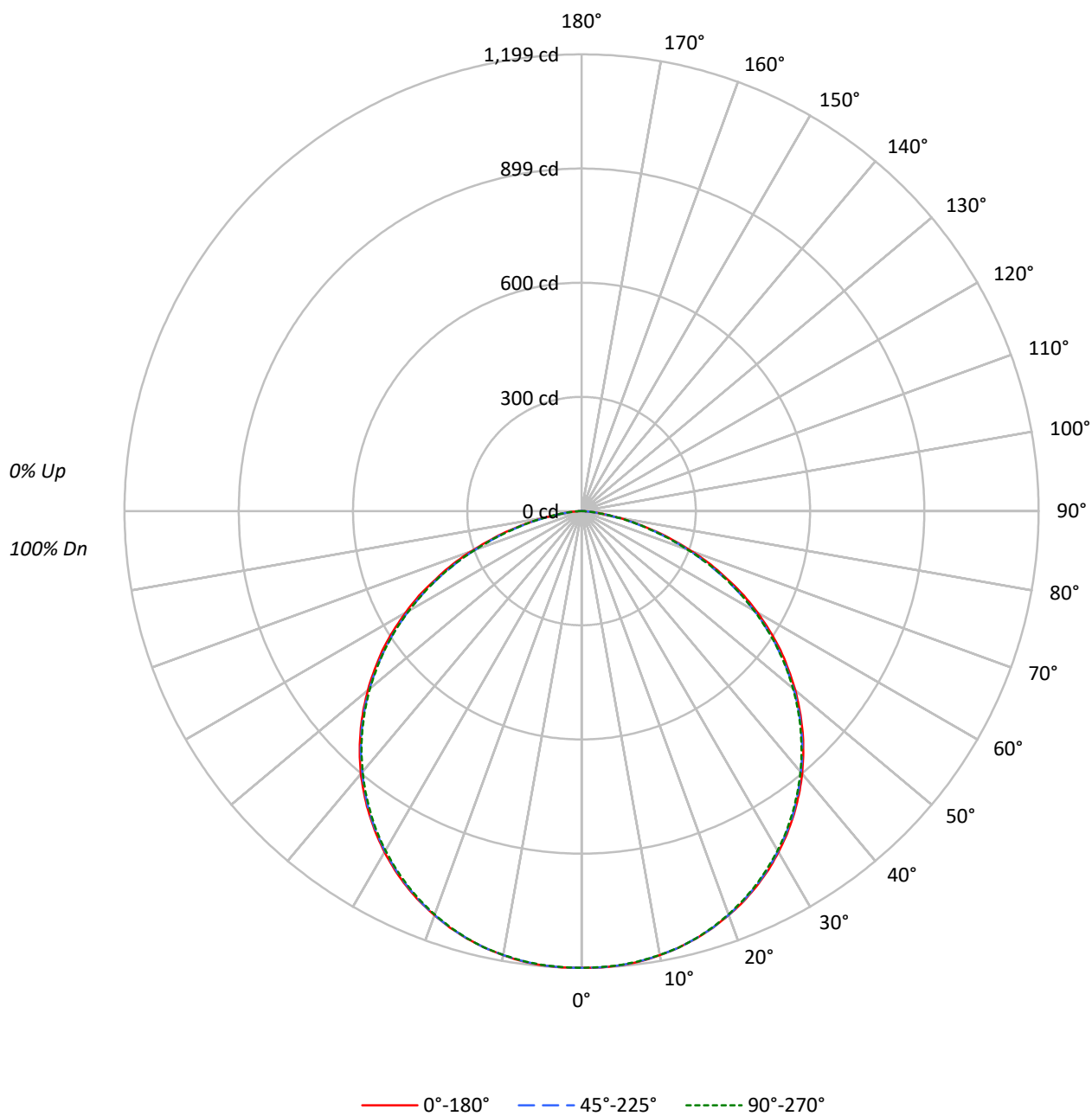
Lumens per Lamp: N/A
Luminaire Lumens: 3388.7 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1613	1613	1613
5°	1616	1616	1615
10°	1617	1617	1616
15°	1618	1617	1617
20°	1616	1616	1613
25°	1613	1610	1608
30°	1606	1601	1598
35°	1596	1591	1586
40°	1581	1572	1569
45°	1561	1552	1547
50°	1532	1520	1515
55°	1496	1474	1472
60°	1433	1408	1408
65°	1341	1309	1314
70°	1207	1170	1166
75°	1013	973	968
80°	740	704	733
85°	418	386	392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.4
10°-20°	327.9	9.7
20°-30°	499.9	14.8
30°-40°	605.6	17.9
40°-50°	629.1	18.6
50°-60°	562.8	16.6
60°-70°	410.2	12.1
70°-80°	203.1	6.0
80°-90°	36.3	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°	941.5	27.8
0°-40°	1547.2	45.7
0°-60°	2739.0	80.8
0°-90°	3388.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3388.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1197	1197	1197	1197	1196	114
15°	1162	1161	1161	1162	1161	328
25°	1087	1085	1084	1084	1083	501
35°	971	970	969	967	965	608
45°	820	819	816	814	813	632
55°	638	633	628	628	628	568
65°	421	418	411	413	413	418
75°	195	192	187	191	186	208
85°	27	25	25	25	25	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.0	1199.0	1199.0	1199.0	1199.0
2.5°	1199.0	1198.5	1198.5	1199.0	1198.1
5°	1196.8	1197.2	1196.8	1196.8	1196.0
7.5°	1192.1	1191.7	1191.2	1191.7	1190.4
10°	1183.9	1183.9	1183.5	1183.9	1183.1
12.5°	1174.0	1174.0	1174.0	1174.4	1174.0
15°	1161.5	1161.1	1161.1	1162.0	1161.1
17.5°	1146.9	1146.5	1146.5	1146.1	1145.2
20°	1128.8	1128.8	1128.4	1128.0	1126.7
22.5°	1109.5	1109.1	1107.8	1107.8	1106.0
25°	1086.7	1085.4	1084.5	1084.1	1082.8
27.5°	1061.7	1060.0	1058.7	1057.9	1056.6
30°	1033.8	1032.0	1030.8	1029.5	1028.6
32.5°	1003.7	1002.8	1000.6	1000.2	998.5
35°	971.4	970.1	968.8	967.1	965.4
37.5°	937.0	935.7	932.7	931.8	930.5
40°	900.4	898.7	894.8	894.8	893.5
42.5°	861.3	859.5	857.0	855.2	854.4
45°	820.4	818.7	815.7	813.9	813.1
47.5°	776.9	775.7	772.2	770.9	769.6
50°	731.8	730.0	726.2	725.3	724.0
52.5°	684.4	683.6	678.4	678.0	676.7
55°	637.6	632.8	628.5	628.5	627.7
57.5°	585.9	582.5	576.9	576.9	576.0
60°	532.6	529.6	523.1	524.0	523.1
62.5°	480.5	474.1	468.1	470.6	468.5
65°	421.2	417.7	411.3	413.0	412.6
67.5°	367.0	360.5	354.5	357.9	356.2
70°	306.7	303.3	297.3	300.7	296.4
72.5°	249.9	246.9	240.9	244.8	240.5
75°	194.9	191.9	187.1	190.6	186.3
77.5°	142.8	140.7	136.4	139.8	140.7
80°	95.5	92.9	90.8	93.8	94.6
82.5°	55.9	54.2	53.3	53.8	55.9
85°	27.1	25.0	25.0	25.4	25.4
87.5°	7.3	6.5	7.3	7.7	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)