

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: P974980

Luminaire Tested: FLR2-24-35HE-L850-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974980
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-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

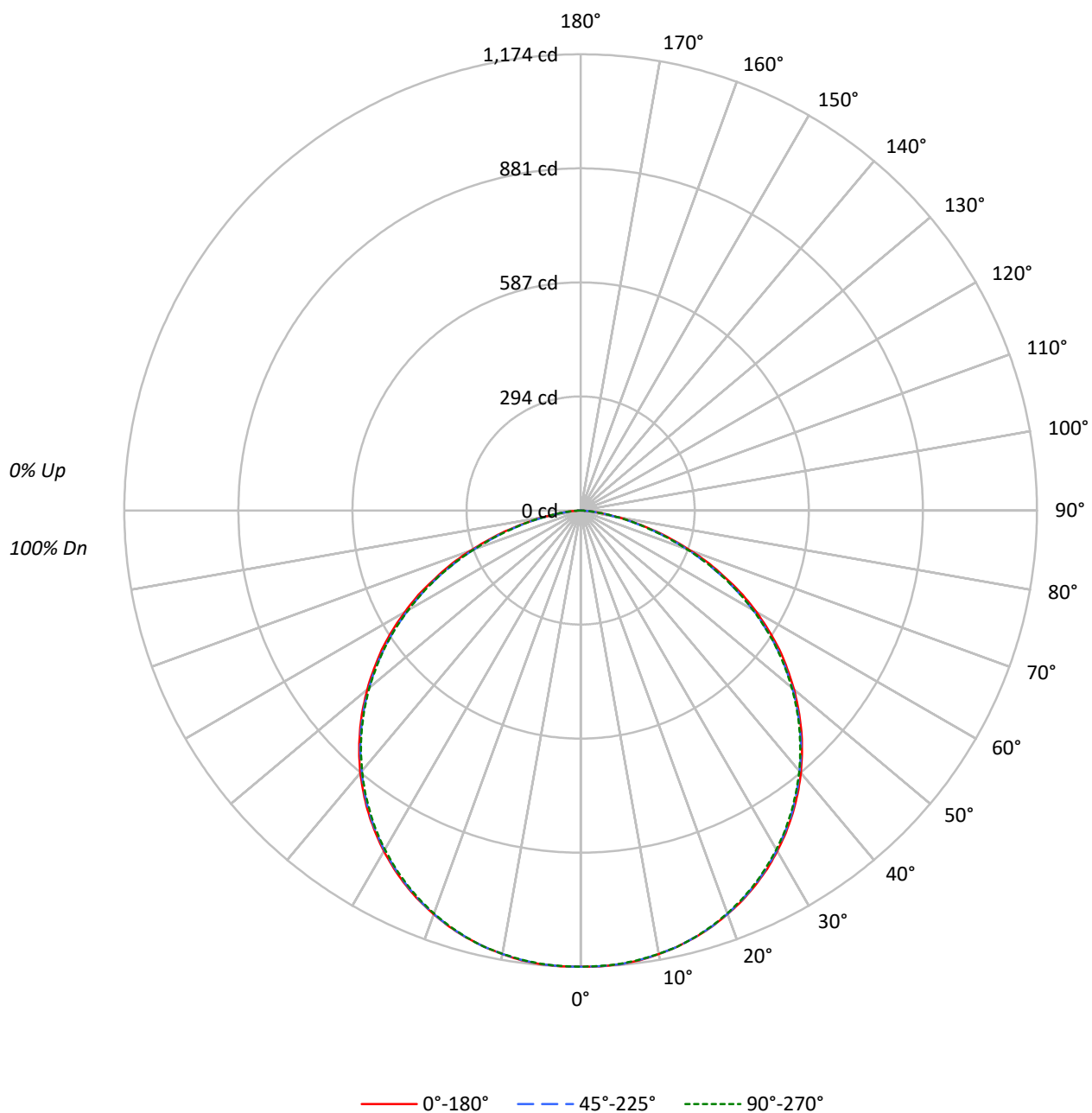
Lumens per Lamp: N/A
Luminaire Lumens: 3318.1 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1580	1580	1580
5°	1583	1583	1582
10°	1584	1583	1583
15°	1584	1584	1584
20°	1583	1582	1580
25°	1580	1577	1574
30°	1573	1568	1565
35°	1562	1558	1553
40°	1549	1539	1537
45°	1529	1520	1515
50°	1500	1488	1484
55°	1464	1444	1442
60°	1403	1378	1378
65°	1313	1282	1286
70°	1181	1145	1142
75°	992	952	948
80°	724	689	718
85°	409	377	384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1529 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	321.0	9.7
20°-30°	489.5	14.8
30°-40°	593.0	17.9
40°-50°	616.0	18.6
50°-60°	551.1	16.6
60°-70°	401.6	12.1
70°-80°	198.9	6.0
80°-90°	35.6	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°	921.9	27.8
0°-40°	1515.0	45.7
0°-60°	2682.1	80.8
0°-90°	3318.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3318.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1172	1172	1172	1172	1171	111
15°	1137	1137	1137	1138	1137	321
25°	1064	1063	1062	1062	1060	490
35°	951	950	949	947	945	595
45°	803	802	799	797	796	619
55°	624	620	615	615	615	556
65°	412	409	403	404	404	409
75°	191	188	183	187	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°	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1174.0	1173.6	1173.6	1174.0	1173.2
5°	1171.9	1172.3	1171.9	1171.9	1171.1
7.5°	1167.3	1166.9	1166.4	1166.9	1165.6
10°	1159.3	1159.3	1158.8	1159.3	1158.4
12.5°	1149.6	1149.6	1149.6	1150.0	1149.6
15°	1137.4	1136.9	1136.9	1137.8	1136.9
17.5°	1123.0	1122.6	1122.6	1122.2	1121.4
20°	1105.4	1105.4	1104.9	1104.5	1103.2
22.5°	1086.4	1086.0	1084.7	1084.7	1083.0
25°	1064.1	1062.8	1062.0	1061.5	1060.3
27.5°	1039.6	1038.0	1036.7	1035.8	1034.6
30°	1012.3	1010.6	1009.3	1008.0	1007.2
32.5°	982.8	981.9	979.8	979.4	977.7
35°	951.2	949.9	948.6	947.0	945.3
37.5°	917.5	916.2	913.3	912.4	911.2
40°	881.7	880.0	876.2	876.2	874.9
42.5°	843.3	841.7	839.1	837.4	836.6
45°	803.3	801.6	798.7	797.0	796.2
47.5°	760.8	759.5	756.1	754.9	753.6
50°	716.5	714.9	711.1	710.2	709.0
52.5°	670.2	669.4	664.3	663.9	662.6
55°	624.3	619.7	615.4	615.4	614.6
57.5°	573.7	570.4	564.9	564.9	564.0
60°	521.5	518.6	512.2	513.1	512.2
62.5°	470.5	464.2	458.3	460.8	458.7
65°	412.4	409.0	402.7	404.4	404.0
67.5°	359.3	353.0	347.1	350.5	348.8
70°	300.3	297.0	291.1	294.5	290.2
72.5°	244.7	241.8	235.9	239.7	235.5
75°	190.8	187.9	183.2	186.6	182.4
77.5°	139.9	137.7	133.5	136.9	137.7
80°	93.5	91.0	88.9	91.8	92.7
82.5°	54.8	53.1	52.2	52.7	54.8
85°	26.5	24.4	24.4	24.9	24.9
87.5°	7.2	6.3	7.2	7.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)