

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: P974716

Luminaire Tested: FLR2-24-35HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974716
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-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

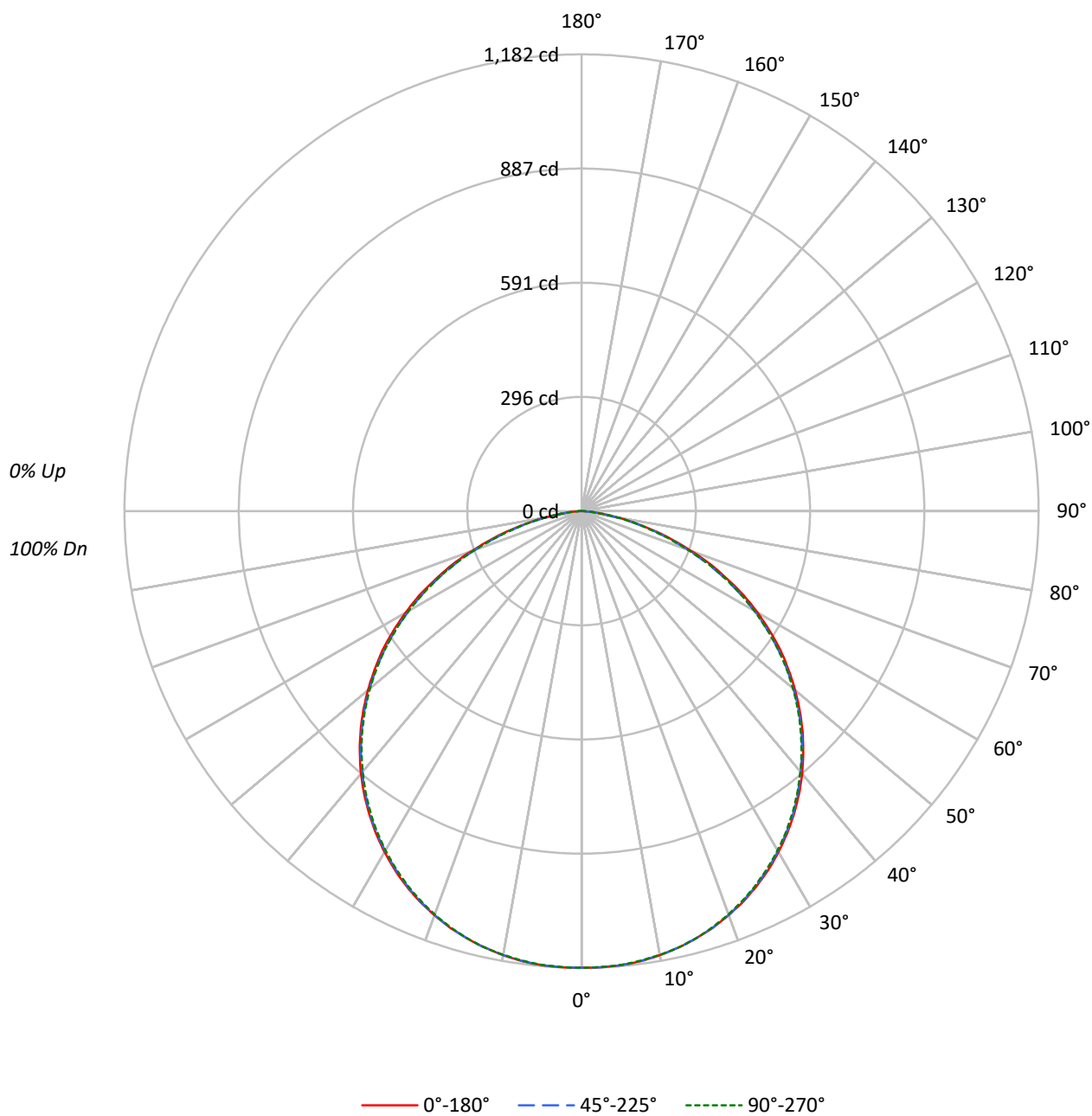
Lumens per Lamp: N/A
Luminaire Lumens: 3340.2 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1590	1590	1590
5°	1593	1593	1592
10°	1594	1594	1593
15°	1595	1594	1594
20°	1593	1593	1590
25°	1590	1587	1584
30°	1583	1578	1575
35°	1573	1569	1563
40°	1559	1549	1547
45°	1539	1530	1525
50°	1510	1498	1494
55°	1474	1453	1451
60°	1413	1387	1387
65°	1322	1291	1295
70°	1189	1153	1149
75°	999	959	954
80°	729	693	723
85°	412	380	386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1539 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.4
10°-20°	323.2	9.7
20°-30°	492.7	14.8
30°-40°	597.0	17.9
40°-50°	620.1	18.6
50°-60°	554.7	16.6
60°-70°	404.3	12.1
70°-80°	200.2	6.0
80°-90°	35.8	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°	928.1	27.8
0°-40°	1525.1	45.7
0°-60°	2699.9	80.8
0°-90°	3340.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3340.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1180	1180	1180	1180	1179	112
15°	1145	1144	1144	1145	1144	323
25°	1071	1070	1069	1069	1067	494
35°	958	956	955	953	952	599
45°	809	807	804	802	801	623
55°	628	624	620	620	619	560
65°	415	412	405	407	407	412
75°	192	189	184	188	184	205
85°	27	25	25	25	25	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.8	1181.8	1181.8	1181.8	1181.8
2.5°	1181.8	1181.4	1181.4	1181.8	1181.0
5°	1179.7	1180.1	1179.7	1179.7	1178.9
7.5°	1175.0	1174.6	1174.2	1174.6	1173.3
10°	1167.0	1167.0	1166.6	1167.0	1166.1
12.5°	1157.2	1157.2	1157.2	1157.6	1157.2
15°	1144.9	1144.5	1144.5	1145.4	1144.5
17.5°	1130.5	1130.1	1130.1	1129.7	1128.8
20°	1112.7	1112.7	1112.3	1111.9	1110.6
22.5°	1093.6	1093.2	1091.9	1091.9	1090.2
25°	1071.1	1069.9	1069.0	1068.6	1067.3
27.5°	1046.5	1044.9	1043.6	1042.7	1041.5
30°	1019.0	1017.3	1016.0	1014.7	1013.9
32.5°	989.3	988.5	986.3	985.9	984.2
35°	957.5	956.2	955.0	953.3	951.6
37.5°	923.6	922.3	919.3	918.5	917.2
40°	887.5	885.8	882.0	882.0	880.7
42.5°	848.9	847.2	844.7	843.0	842.2
45°	808.7	807.0	804.0	802.3	801.4
47.5°	765.8	764.6	761.2	759.9	758.6
50°	721.3	719.6	715.8	714.9	713.7
52.5°	674.7	673.8	668.7	668.3	667.0
55°	628.4	623.8	619.5	619.5	618.7
57.5°	577.6	574.2	568.6	568.6	567.8
60°	525.0	522.0	515.6	516.5	515.6
62.5°	473.7	467.3	461.4	463.9	461.8
65°	415.1	411.7	405.4	407.1	406.7
67.5°	361.7	355.4	349.4	352.8	351.1
70°	302.3	299.0	293.0	296.4	292.2
72.5°	246.4	243.4	237.5	241.3	237.0
75°	192.1	189.1	184.5	187.9	183.6
77.5°	140.8	138.7	134.4	137.8	138.7
80°	94.1	91.6	89.5	92.4	93.3
82.5°	55.1	53.4	52.6	53.0	55.1
85°	26.7	24.6	24.6	25.0	25.0
87.5°	7.2	6.4	7.2	7.6	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)