

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: P974771

Luminaire Tested: FLR2-24-35HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974771
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

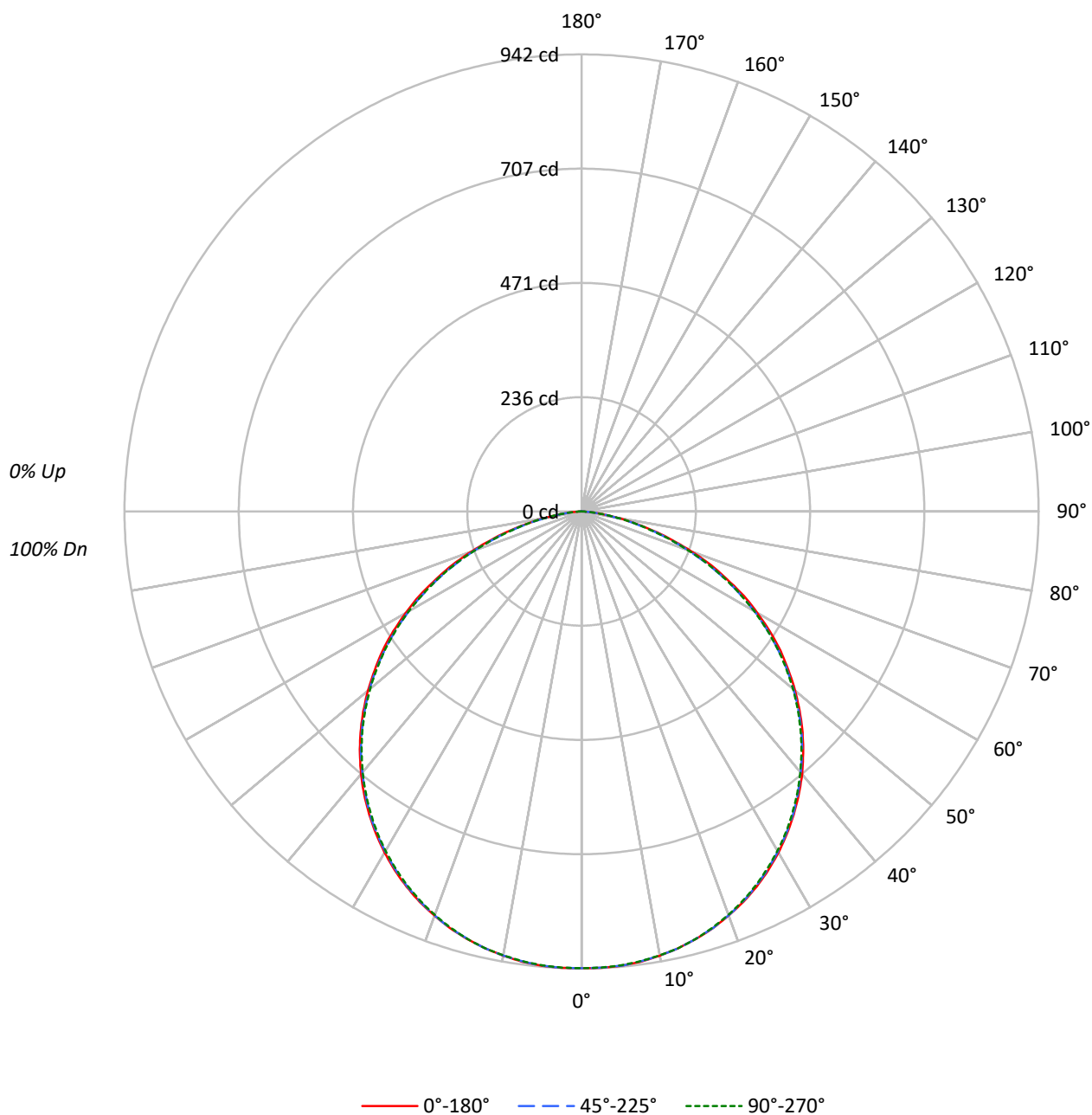
Lumens per Lamp: N/A
Luminaire Lumens: 2661.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1267	1267	1267
5°	1269	1269	1269
10°	1270	1270	1269
15°	1271	1270	1270
20°	1269	1269	1267
25°	1267	1264	1262
30°	1261	1258	1255
35°	1253	1250	1245
40°	1242	1234	1232
45°	1226	1219	1215
50°	1203	1194	1190
55°	1175	1158	1156
60°	1125	1105	1105
65°	1053	1028	1032
70°	948	918	916
75°	795	764	761
80°	581	552	576
85°	329	303	307

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1226 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.4
10°-20°	257.5	9.7
20°-30°	392.5	14.8
30°-40°	475.6	17.9
40°-50°	494.0	18.6
50°-60°	441.9	16.6
60°-70°	322.1	12.1
70°-80°	159.5	6.0
80°-90°	28.5	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°	739.4	27.8
0°-40°	1215.0	45.7
0°-60°	2151.0	80.8
0°-90°	2661.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	940	940	940	940	939	89
15°	912	912	912	912	912	258
25°	853	852	852	851	850	393
35°	763	762	761	760	758	477
45°	644	643	640	639	638	496
55°	501	497	494	494	493	446
65°	331	328	323	324	324	328
75°	153	151	147	150	146	163
85°	21	20	20	20	20	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	941.5	941.5	941.5	941.5	941.5
2.5°	941.5	941.2	941.2	941.5	940.9
5°	939.9	940.2	939.9	939.9	939.2
7.5°	936.1	935.8	935.5	935.8	934.8
10°	929.7	929.7	929.4	929.7	929.0
12.5°	922.0	922.0	922.0	922.3	922.0
15°	912.2	911.8	911.8	912.5	911.8
17.5°	900.7	900.3	900.3	900.0	899.3
20°	886.5	886.5	886.1	885.8	884.8
22.5°	871.3	870.9	869.9	869.9	868.6
25°	853.4	852.4	851.7	851.3	850.3
27.5°	833.8	832.4	831.4	830.7	829.7
30°	811.8	810.5	809.5	808.4	807.8
32.5°	788.2	787.5	785.8	785.5	784.1
35°	762.8	761.8	760.8	759.5	758.1
37.5°	735.8	734.8	732.4	731.8	730.7
40°	707.1	705.7	702.7	702.7	701.7
42.5°	676.3	675.0	673.0	671.6	670.9
45°	644.3	642.9	640.5	639.2	638.5
47.5°	610.1	609.1	606.4	605.4	604.4
50°	574.7	573.3	570.3	569.6	568.6
52.5°	537.5	536.8	532.8	532.4	531.4
55°	500.7	497.0	493.6	493.6	492.9
57.5°	460.1	457.4	453.0	453.0	452.4
60°	418.2	415.9	410.8	411.5	410.8
62.5°	377.4	372.3	367.6	369.6	367.9
65°	330.7	328.0	323.0	324.3	324.0
67.5°	288.2	283.1	278.4	281.1	279.7
70°	240.9	238.2	233.4	236.1	232.8
72.5°	196.3	193.9	189.2	192.2	188.9
75°	153.0	150.7	147.0	149.7	146.3
77.5°	112.2	110.5	107.1	109.8	110.5
80°	75.0	73.0	71.3	73.6	74.3
82.5°	43.9	42.6	41.9	42.2	43.9
85°	21.3	19.6	19.6	19.9	19.9
87.5°	5.7	5.1	5.7	6.1	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)