

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: P974782

Luminaire Tested: FLR2-24-35HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974782
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

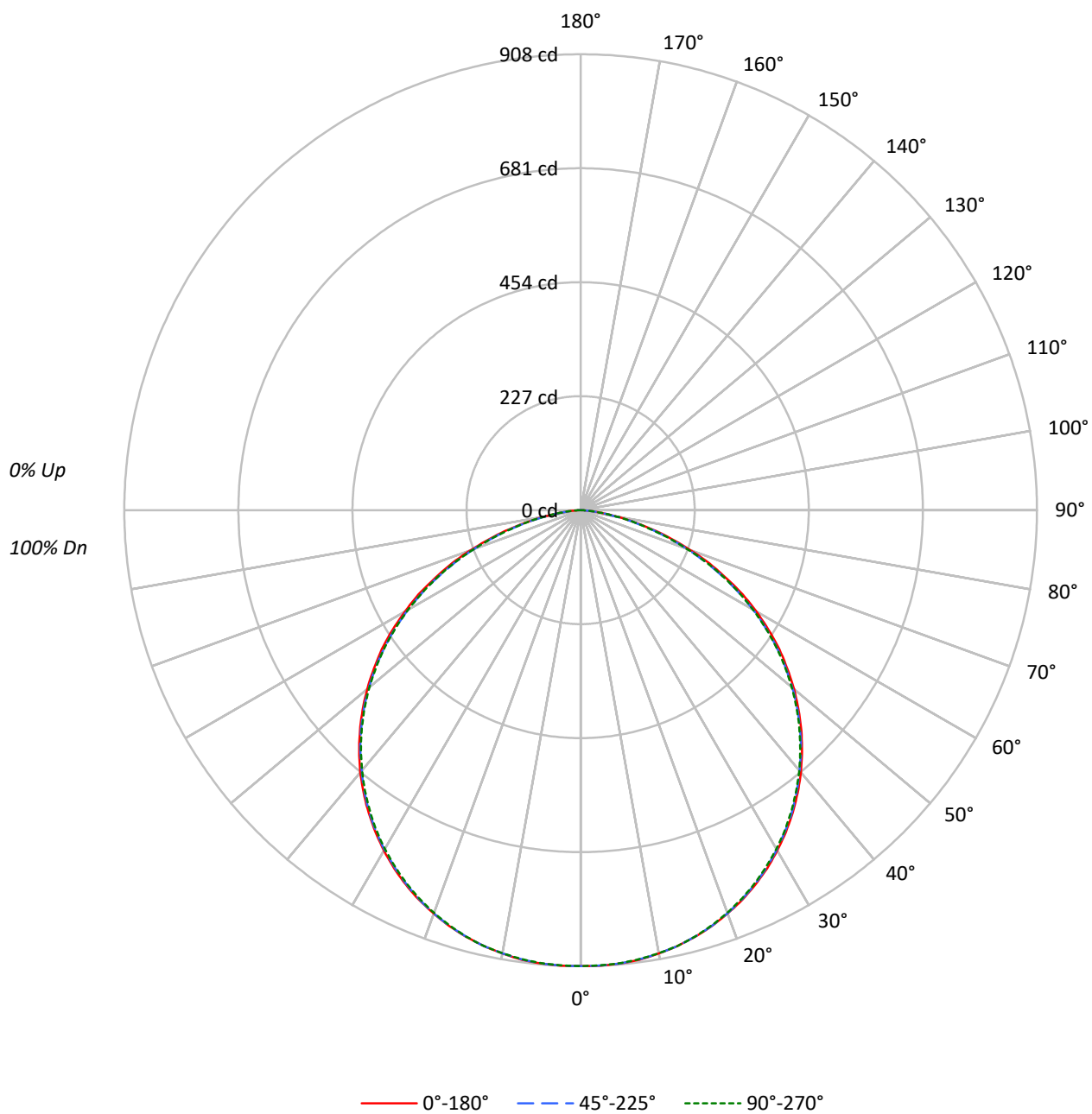
Lumens per Lamp: N/A
Luminaire Lumens: 2566.2 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1222	1222	1222
5°	1224	1224	1223
10°	1225	1224	1224
15°	1225	1225	1225
20°	1224	1224	1222
25°	1222	1219	1217
30°	1216	1213	1210
35°	1208	1205	1201
40°	1198	1190	1189
45°	1182	1175	1172
50°	1160	1151	1148
55°	1133	1117	1115
60°	1085	1066	1066
65°	1015	992	995
70°	914	886	883
75°	767	737	734
80°	560	532	556
85°	316	292	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	3.4
10°-20°	248.3	9.7
20°-30°	378.6	14.8
30°-40°	458.7	17.9
40°-50°	476.4	18.6
50°-60°	426.2	16.6
60°-70°	310.6	12.1
70°-80°	153.8	6.0
80°-90°	27.5	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°	713.0	27.8
0°-40°	1171.7	45.7
0°-60°	2074.3	80.8
0°-90°	2566.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	906	907	906	906	906	86
15°	880	879	879	880	879	248
25°	823	822	821	821	820	379
35°	736	735	734	732	731	460
45°	621	620	618	616	616	479
55°	483	479	476	476	475	430
65°	319	316	312	313	312	316
75°	148	145	142	144	141	157
85°	20	19	19	19	19	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.0	908.0	908.0	908.0	908.0
2.5°	908.0	907.6	907.6	908.0	907.3
5°	906.3	906.7	906.3	906.3	905.7
7.5°	902.8	902.4	902.1	902.4	901.5
10°	896.6	896.6	896.2	896.6	895.9
12.5°	889.1	889.1	889.1	889.4	889.1
15°	879.6	879.3	879.3	880.0	879.3
17.5°	868.6	868.2	868.2	867.9	867.2
20°	854.9	854.9	854.5	854.2	853.2
22.5°	840.2	839.9	838.9	838.9	837.6
25°	822.9	822.0	821.3	821.0	820.0
27.5°	804.0	802.7	801.8	801.1	800.1
30°	782.9	781.6	780.6	779.6	779.0
32.5°	760.1	759.4	757.8	757.5	756.2
35°	735.6	734.7	733.7	732.4	731.1
37.5°	709.6	708.6	706.3	705.7	704.7
40°	681.9	680.6	677.6	677.6	676.7
42.5°	652.2	650.9	649.0	647.7	647.0
45°	621.3	620.0	617.7	616.4	615.7
47.5°	588.4	587.4	584.8	583.8	582.8
50°	554.2	552.9	549.9	549.3	548.3
52.5°	518.3	517.7	513.8	513.4	512.5
55°	482.8	479.2	476.0	476.0	475.3
57.5°	443.7	441.1	436.9	436.9	436.2
60°	403.3	401.0	396.2	396.8	396.2
62.5°	363.9	359.0	354.5	356.4	354.8
65°	318.9	316.3	311.5	312.8	312.4
67.5°	277.9	273.0	268.4	271.1	269.8
70°	232.3	229.7	225.1	227.7	224.5
72.5°	189.3	187.0	182.4	185.4	182.1
75°	147.6	145.3	141.7	144.3	141.1
77.5°	108.2	106.5	103.3	105.9	106.5
80°	72.3	70.4	68.7	71.0	71.7
82.5°	42.4	41.0	40.4	40.7	42.4
85°	20.5	18.9	18.9	19.2	19.2
87.5°	5.5	4.9	5.5	5.9	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)