

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: P974047

Luminaire Tested: FLR2-22-35HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35HE-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

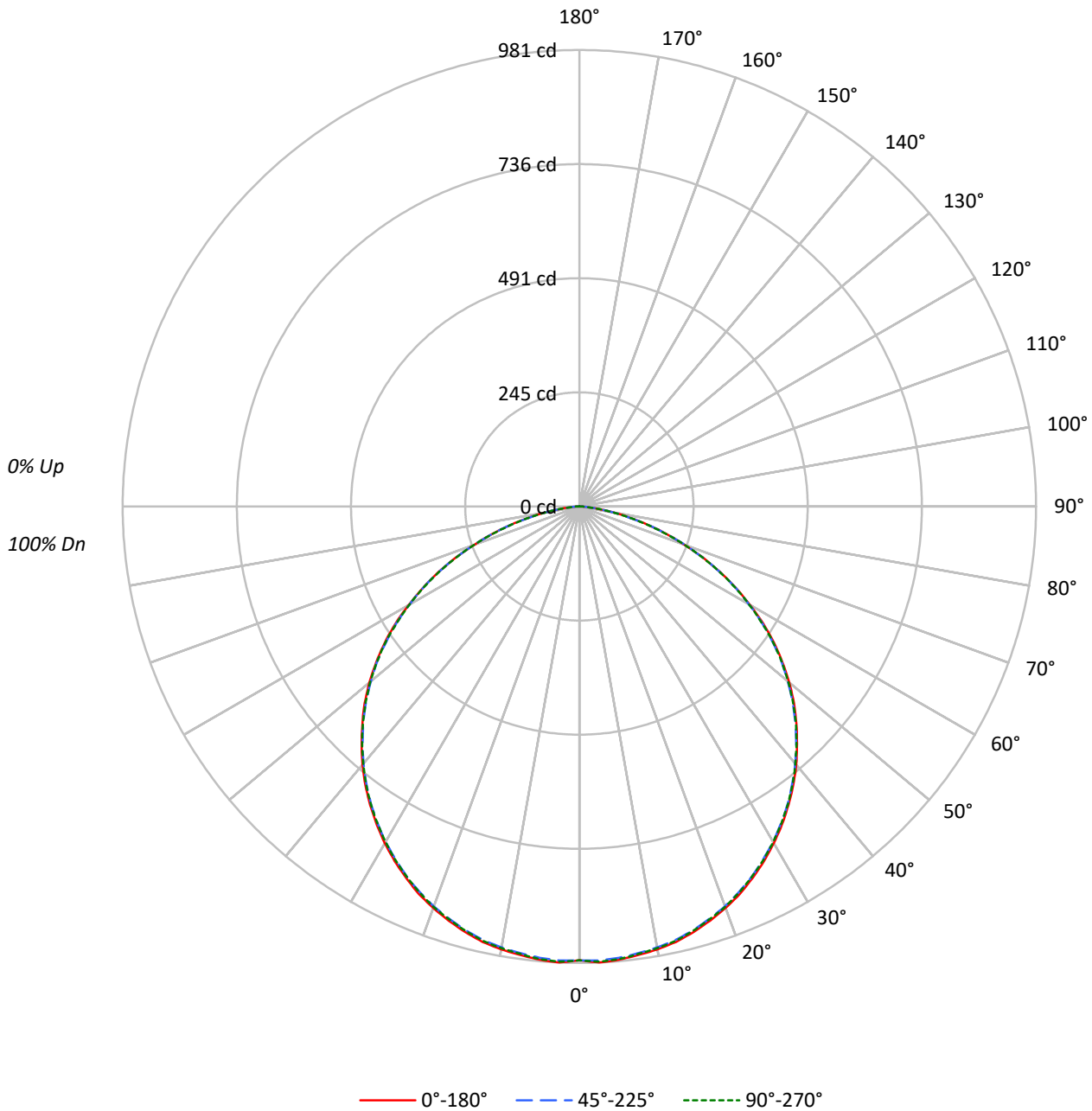
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2728.1 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.2
Input Voltage (V): 120
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	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	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2625	2625	2625
5°	2642	2630	2638
10°	2641	2629	2634
15°	2639	2627	2630
20°	2630	2619	2623
25°	2616	2605	2607
30°	2597	2586	2587
35°	2573	2563	2565
40°	2546	2534	2536
45°	2509	2497	2502
50°	2465	2447	2452
55°	2395	2374	2383
60°	2277	2267	2267
65°	2125	2122	2114
70°	1882	1891	1887
75°	1585	1572	1560
80°	1139	1120	1111
85°	596	596	577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	3.4
10°-20°	265.7	9.7
20°-30°	403.7	14.8
30°-40°	487.9	17.9
40°-50°	506.5	18.6
50°-60°	452.8	16.6
60°-70°	329.2	12.1
70°-80°	161.9	5.9
80°-90°	28.1	1.0
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°	761.7	27.9
0°-40°	1249.7	45.8
0°-60°	2208.9	81.0
0°-90°	2728.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2728.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	978	966	974	970	977	93
15°	947	936	943	941	944	267
25°	881	871	877	876	878	406
35°	783	778	780	781	781	490
45°	659	656	656	657	657	509
55°	510	507	506	507	508	455
65°	334	335	333	333	332	329
75°	152	154	151	152	150	162
85°	19	20	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°	975.5	975.5	975.5	975.5	975.5
2.5°	981.0	969.5	976.7	972.5	979.2
5°	977.9	966.5	973.7	970.1	976.7
7.5°	972.5	961.1	968.3	964.7	970.1
10°	966.5	954.4	962.3	958.7	964.1
12.5°	958.7	947.2	954.4	951.4	956.3
15°	947.2	936.4	943.0	940.6	944.2
17.5°	933.4	922.5	929.1	927.3	930.3
20°	918.3	908.0	914.7	912.9	915.9
22.5°	901.4	890.6	896.6	895.4	897.8
25°	880.9	871.3	877.3	875.5	877.9
27.5°	859.2	850.2	855.0	855.0	856.2
30°	835.7	827.3	832.1	832.1	832.7
32.5°	810.4	803.8	806.8	807.4	807.4
35°	783.3	777.9	780.3	780.9	780.9
37.5°	755.0	749.6	751.4	752.6	752.6
40°	724.9	720.1	721.3	722.5	721.9
42.5°	692.3	688.7	689.3	690.5	690.5
45°	659.2	656.2	656.2	657.4	657.4
47.5°	625.5	622.4	621.2	622.4	622.4
50°	588.7	585.7	584.5	585.7	585.7
52.5°	550.1	547.1	547.1	547.1	547.7
55°	510.4	507.4	506.1	507.4	508.0
57.5°	468.2	467.0	465.2	465.8	464.0
60°	423.0	423.0	421.2	422.4	421.2
62.5°	379.0	380.2	378.4	378.4	377.2
65°	333.8	335.0	333.2	333.2	332.0
67.5°	287.4	289.2	286.8	286.8	285.6
70°	239.2	242.8	240.4	241.0	239.8
72.5°	195.8	197.6	195.2	195.2	194.0
75°	152.4	153.7	151.2	151.8	150.0
77.5°	109.7	111.5	109.1	109.7	109.1
80°	73.5	74.1	72.3	72.9	71.7
82.5°	42.8	43.4	42.8	42.2	41.6
85°	19.3	19.9	19.3	19.3	18.7
87.5°	4.8	4.8	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)