

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: P974029

Luminaire Tested: FLR2-22-35HE-L950-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974029
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

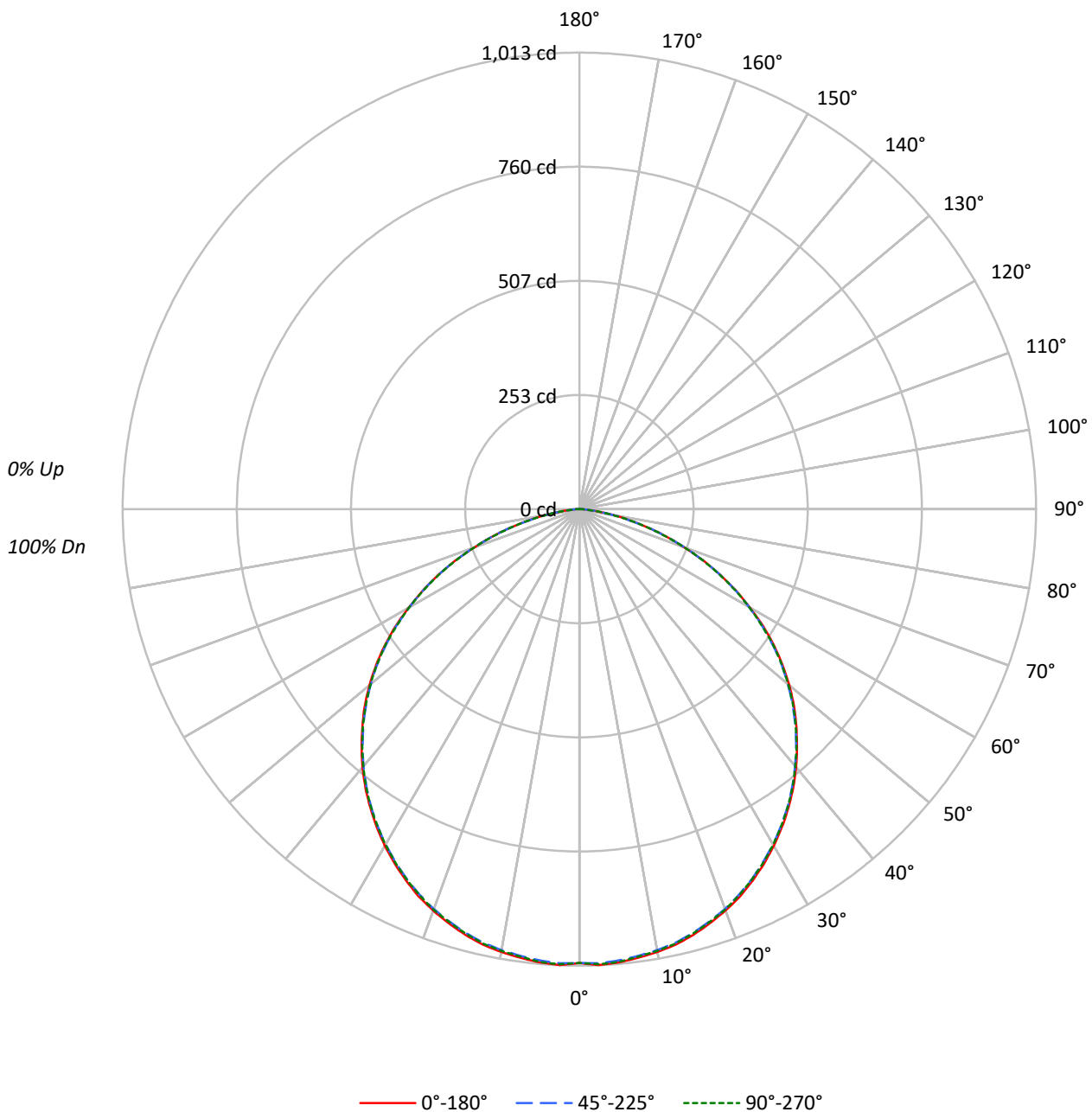
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2816.5 lumens
Efficiency: N/A
Efficacy: 103.5 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°	2710	2710	2710
5°	2727	2716	2724
10°	2726	2715	2720
15°	2724	2712	2716
20°	2715	2704	2708
25°	2700	2689	2691
30°	2681	2669	2671
35°	2657	2646	2648
40°	2629	2616	2618
45°	2590	2578	2583
50°	2545	2526	2532
55°	2472	2451	2460
60°	2350	2340	2340
65°	2194	2190	2183
70°	1943	1953	1948
75°	1637	1623	1611
80°	1176	1156	1147
85°	614	614	596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2590 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	3.4
10°-20°	274.3	9.7
20°-30°	416.8	14.8
30°-40°	503.8	17.9
40°-50°	522.9	18.6
50°-60°	467.5	16.6
60°-70°	339.9	12.1
70°-80°	167.1	5.9
80°-90°	29.0	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°	786.4	27.9
0°-40°	1290.2	45.8
0°-60°	2280.5	81.0
0°-90°	2816.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2816.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1007	1007	1007	1007	1007	
5°	1010	998	1005	1002	1008	96
15°	978	967	974	971	975	276
25°	910	900	906	904	906	419
35°	809	803	806	806	806	506
45°	681	677	677	679	679	525
55°	527	524	522	524	524	470
65°	345	346	344	344	343	340
75°	157	159	156	157	155	167
85°	20	20	20	20	19	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.1	1007.1	1007.1	1007.1	1007.1
2.5°	1012.7	1000.9	1008.4	1004.0	1010.9
5°	1009.6	997.8	1005.3	1001.5	1008.4
7.5°	1004.0	992.2	999.7	996.0	1001.5
10°	997.8	985.4	993.5	989.7	995.3
12.5°	989.7	977.9	985.4	982.3	987.2
15°	977.9	966.7	973.6	971.1	974.8
17.5°	963.6	952.4	959.2	957.4	960.5
20°	948.0	937.5	944.3	942.5	945.6
22.5°	930.6	919.4	925.7	924.4	926.9
25°	909.5	899.5	905.7	903.9	906.4
27.5°	887.1	877.8	882.7	882.7	884.0
30°	862.8	854.1	859.1	859.1	859.7
32.5°	836.7	829.9	833.0	833.6	833.6
35°	808.7	803.1	805.6	806.2	806.2
37.5°	779.5	773.9	775.7	777.0	777.0
40°	748.4	743.4	744.6	745.9	745.3
42.5°	714.8	711.0	711.7	712.9	712.9
45°	680.6	677.4	677.4	678.7	678.7
47.5°	645.7	642.6	641.4	642.6	642.6
50°	607.8	604.7	603.4	604.7	604.7
52.5°	568.0	564.8	564.8	564.8	565.5
55°	526.9	523.8	522.5	523.8	524.4
57.5°	483.4	482.1	480.2	480.9	479.0
60°	436.7	436.7	434.8	436.1	434.8
62.5°	391.3	392.5	390.7	390.7	389.4
65°	344.6	345.9	344.0	344.0	342.8
67.5°	296.7	298.6	296.1	296.1	294.9
70°	247.0	250.7	248.2	248.8	247.6
72.5°	202.2	204.0	201.6	201.6	200.3
75°	157.4	158.6	156.1	156.8	154.9
77.5°	113.2	115.1	112.6	113.2	112.6
80°	75.9	76.5	74.6	75.3	74.0
82.5°	44.2	44.8	44.2	43.5	42.9
85°	19.9	20.5	19.9	19.9	19.3
87.5°	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)