

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: P973933

Luminaire Tested: FLR2-22-35HE-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973933
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-L940-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

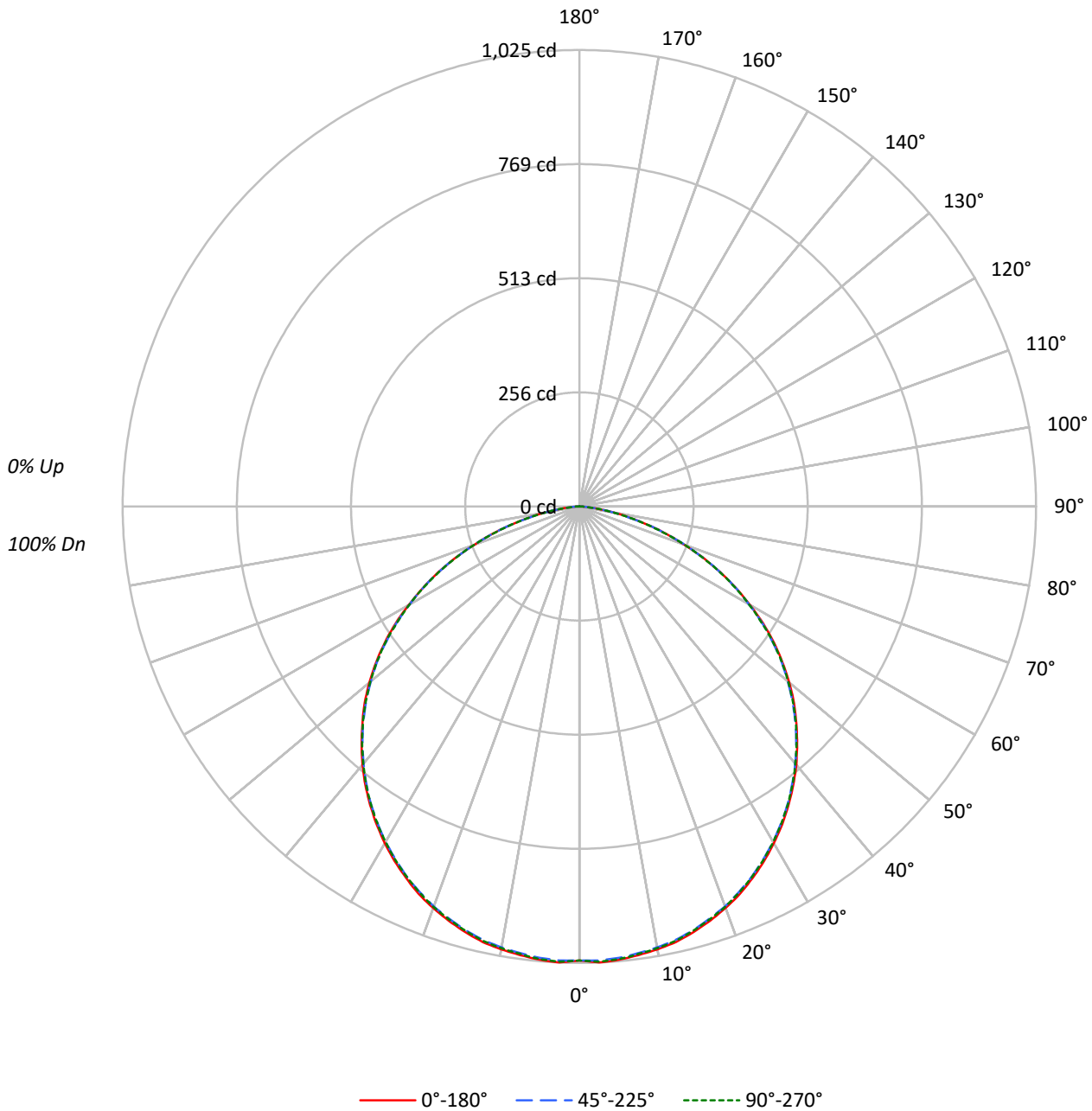
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.7 lumens
Efficiency: N/A
Efficacy: 104.8 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°	2743	2743	2743
5°	2760	2749	2757
10°	2760	2748	2753
15°	2757	2745	2749
20°	2748	2737	2741
25°	2733	2722	2724
30°	2714	2702	2704
35°	2689	2679	2681
40°	2661	2648	2650
45°	2621	2610	2614
50°	2575	2557	2562
55°	2502	2481	2490
60°	2379	2369	2369
65°	2221	2217	2209
70°	1967	1976	1972
75°	1656	1643	1630
80°	1190	1172	1161
85°	621	621	602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2621 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.4
10°-20°	277.6	9.7
20°-30°	421.8	14.8
30°-40°	509.9	17.9
40°-50°	529.2	18.6
50°-60°	473.2	16.6
60°-70°	344.0	12.1
70°-80°	169.2	5.9
80°-90°	29.3	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°	796.0	27.9
0°-40°	1305.8	45.8
0°-60°	2308.2	81.0
0°-90°	2850.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1010	1018	1014	1021	97
15°	990	978	985	983	987	279
25°	920	910	917	915	917	424
35°	818	813	815	816	816	512
45°	689	686	686	687	687	531
55°	533	530	529	530	531	475
65°	349	350	348	348	347	344
75°	159	161	158	159	157	169
85°	20	21	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°	1019.4	1019.4	1019.4	1019.4	1019.4
2.5°	1025.0	1013.1	1020.6	1016.2	1023.2
5°	1021.9	1009.9	1017.5	1013.7	1020.6
7.5°	1016.2	1004.3	1011.8	1008.0	1013.7
10°	1009.9	997.3	1005.5	1001.8	1007.4
12.5°	1001.8	989.8	997.3	994.2	999.2
15°	989.8	978.5	985.4	982.9	986.6
17.5°	975.3	964.0	970.9	969.0	972.2
20°	959.6	948.9	955.8	953.9	957.0
22.5°	941.9	930.6	936.9	935.6	938.2
25°	920.5	910.5	916.7	914.9	917.4
27.5°	897.9	888.4	893.5	893.5	894.7
30°	873.3	864.5	869.5	869.5	870.2
32.5°	846.9	839.9	843.1	843.7	843.7
35°	818.5	812.9	815.4	816.0	816.0
37.5°	788.9	783.3	785.2	786.4	786.4
40°	757.5	752.4	753.7	754.9	754.3
42.5°	723.5	719.7	720.3	721.6	721.6
45°	688.8	685.7	685.7	686.9	686.9
47.5°	653.6	650.4	649.2	650.4	650.4
50°	615.2	612.0	610.7	612.0	612.0
52.5°	574.9	571.7	571.7	571.7	572.3
55°	533.3	530.2	528.9	530.2	530.8
57.5°	489.2	488.0	486.1	486.7	484.8
60°	442.0	442.0	440.1	441.4	440.1
62.5°	396.0	397.3	395.4	395.4	394.2
65°	348.8	350.1	348.2	348.2	346.9
67.5°	300.3	302.2	299.7	299.7	298.4
70°	250.0	253.7	251.2	251.9	250.6
72.5°	204.6	206.5	204.0	204.0	202.7
75°	159.3	160.6	158.0	158.7	156.8
77.5°	114.6	116.5	114.0	114.6	114.0
80°	76.8	77.4	75.6	76.2	74.9
82.5°	44.7	45.3	44.7	44.1	43.4
85°	20.1	20.8	20.1	20.1	19.5
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)