

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: P973969

Luminaire Tested: FLR2-22-35HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973969
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

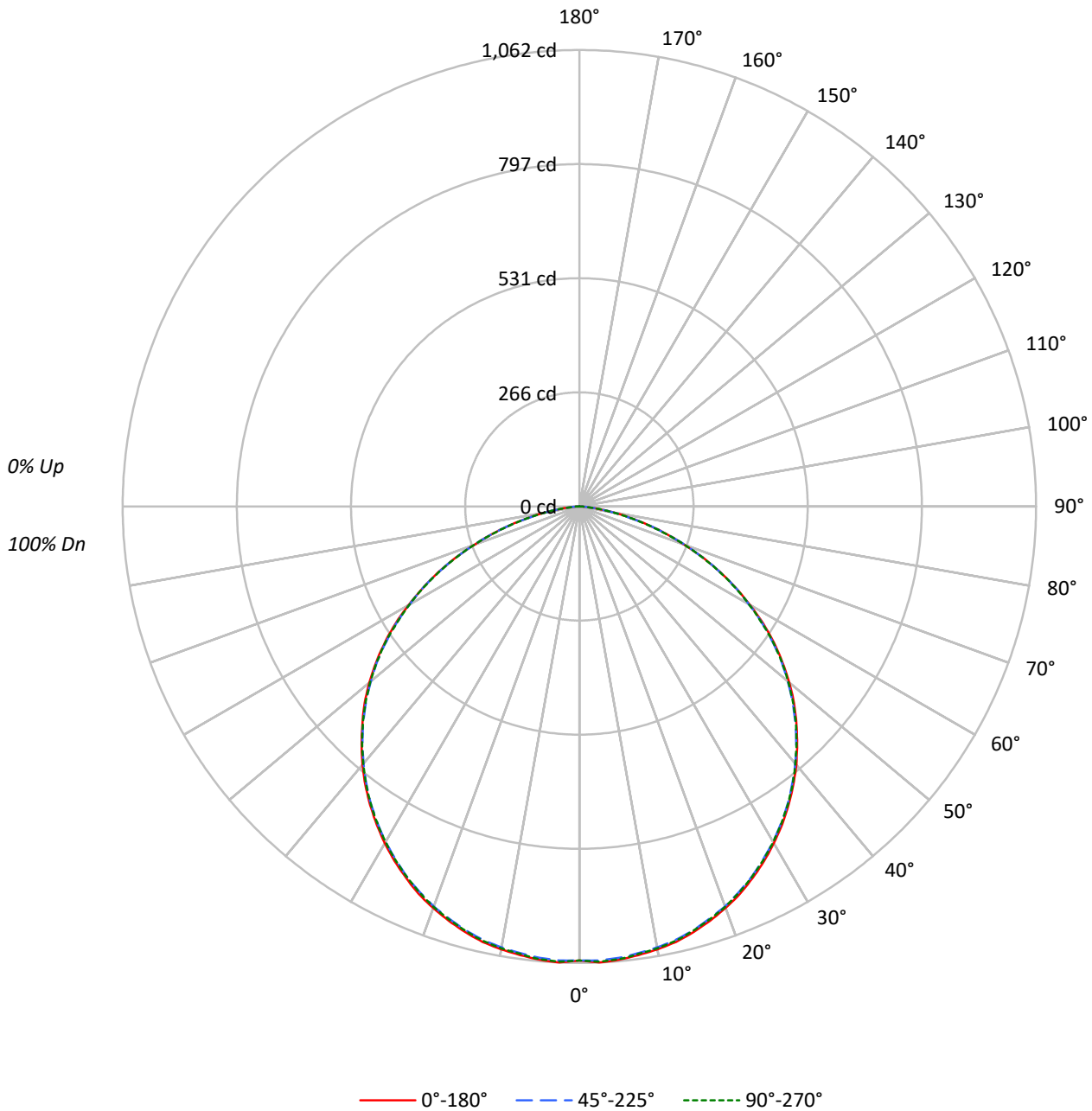
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2953.6 lumens
Efficiency: N/A
Efficacy: 108.6 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2842	2842	2842
5°	2860	2848	2857
10°	2859	2847	2852
15°	2857	2844	2848
20°	2847	2836	2840
25°	2832	2820	2822
30°	2811	2799	2802
35°	2786	2775	2778
40°	2757	2743	2745
45°	2716	2704	2708
50°	2668	2649	2655
55°	2593	2571	2580
60°	2465	2454	2454
65°	2301	2297	2289
70°	2038	2048	2043
75°	1716	1702	1688
80°	1234	1213	1203
85°	645	645	624

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2716 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	3.4
10°-20°	287.6	9.7
20°-30°	437.1	14.8
30°-40°	528.3	17.9
40°-50°	548.3	18.6
50°-60°	490.2	16.6
60°-70°	356.4	12.1
70°-80°	175.3	5.9
80°-90°	30.4	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°	824.7	27.9
0°-40°	1353.0	45.8
0°-60°	2391.5	81.0
0°-90°	2953.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2953.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1059	1046	1054	1050	1058	101
15°	1026	1014	1021	1018	1022	289
25°	954	943	950	948	950	440
35°	848	842	845	846	846	531
45°	714	710	710	712	712	551
55°	553	549	548	549	550	493
65°	361	363	361	361	360	356
75°	165	166	164	164	162	175
85°	21	22	21	21	20	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.2	1056.2	1056.2	1056.2	1056.2
2.5°	1062.0	1049.7	1057.5	1052.9	1060.1
5°	1058.8	1046.4	1054.2	1050.3	1057.5
7.5°	1052.9	1040.5	1048.3	1044.4	1050.3
10°	1046.4	1033.3	1041.8	1037.9	1043.8
12.5°	1037.9	1025.5	1033.3	1030.1	1035.3
15°	1025.5	1013.8	1021.0	1018.3	1022.3
17.5°	1010.5	998.8	1005.9	1004.0	1007.3
20°	994.2	983.1	990.3	988.3	991.6
22.5°	975.9	964.2	970.7	969.4	972.0
25°	953.8	943.3	949.8	947.9	950.5
27.5°	930.3	920.5	925.7	925.7	927.0
30°	904.8	895.7	900.9	900.9	901.6
32.5°	877.4	870.3	873.5	874.2	874.2
35°	848.1	842.2	844.8	845.5	845.5
37.5°	817.4	811.5	813.5	814.8	814.8
40°	784.8	779.6	780.9	782.2	781.5
42.5°	749.6	745.7	746.3	747.6	747.6
45°	713.7	710.4	710.4	711.7	711.7
47.5°	677.2	673.9	672.6	673.9	673.9
50°	637.4	634.1	632.8	634.1	634.1
52.5°	595.6	592.3	592.3	592.3	593.0
55°	552.6	549.3	548.0	549.3	549.9
57.5°	506.9	505.6	503.6	504.3	502.3
60°	458.0	458.0	456.0	457.3	456.0
62.5°	410.3	411.6	409.7	409.7	408.4
65°	361.4	362.7	360.8	360.8	359.5
67.5°	311.2	313.1	310.5	310.5	309.2
70°	259.0	262.9	260.3	260.9	259.6
72.5°	212.0	214.0	211.4	211.4	210.1
75°	165.0	166.4	163.7	164.4	162.4
77.5°	118.7	120.7	118.1	118.7	118.1
80°	79.6	80.2	78.3	78.9	77.6
82.5°	46.3	47.0	46.3	45.7	45.0
85°	20.9	21.5	20.9	20.9	20.2
87.5°	5.2	5.2	5.2	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)