

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: P973866

Luminaire Tested: FLR2-22-25HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973866
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: FLR2-22-25HE-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

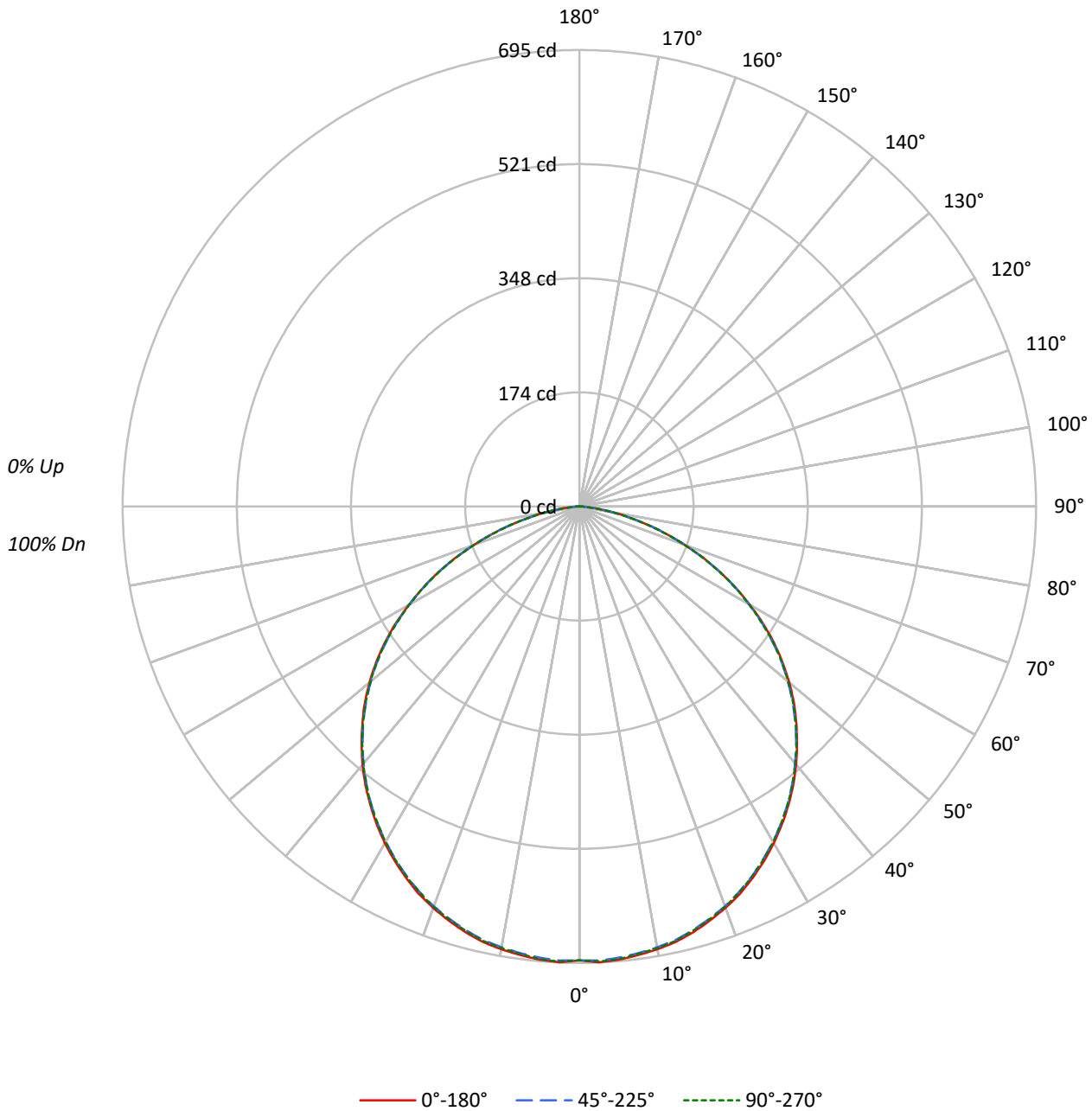
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.3 lumens
Efficiency: N/A
Efficacy: 100.6 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): 19.2
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°	1859	1859	1859
5°	1871	1863	1869
10°	1871	1862	1866
15°	1869	1861	1863
20°	1863	1855	1858
25°	1853	1845	1846
30°	1840	1831	1833
35°	1823	1816	1817
40°	1803	1795	1796
45°	1777	1769	1772
50°	1746	1733	1737
55°	1696	1682	1688
60°	1612	1605	1605
65°	1505	1503	1498
70°	1333	1340	1337
75°	1123	1114	1105
80°	807	793	787
85°	423	423	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1777 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.4
10°-20°	188.2	9.7
20°-30°	285.9	14.8
30°-40°	345.6	17.9
40°-50°	358.7	18.6
50°-60°	320.7	16.6
60°-70°	233.2	12.1
70°-80°	114.7	5.9
80°-90°	19.9	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°	539.5	27.9
0°-40°	885.1	45.8
0°-60°	1564.6	81.0
0°-90°	1932.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	693	685	690	687	692	66
15°	671	663	668	666	669	189
25°	624	617	621	620	622	288
35°	555	551	553	553	553	347
45°	467	465	465	466	466	360
55°	362	359	358	359	360	322
65°	236	237	236	236	235	233
75°	108	109	107	108	106	115
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.0	691.0	691.0	691.0	691.0
2.5°	694.8	686.7	691.8	688.8	693.5
5°	692.7	684.6	689.7	687.1	691.8
7.5°	688.8	680.7	685.9	683.3	687.1
10°	684.6	676.0	681.6	679.0	682.9
12.5°	679.0	670.9	676.0	673.9	677.3
15°	670.9	663.2	667.9	666.2	668.8
17.5°	661.1	653.4	658.1	656.8	659.0
20°	650.4	643.2	647.9	646.6	648.7
22.5°	638.5	630.8	635.1	634.2	635.9
25°	624.0	617.1	621.4	620.1	621.8
27.5°	608.6	602.2	605.6	605.6	606.5
30°	592.0	586.0	589.4	589.4	589.8
32.5°	574.0	569.3	571.5	571.9	571.9
35°	554.8	551.0	552.7	553.1	553.1
37.5°	534.8	530.9	532.2	533.1	533.1
40°	513.4	510.0	510.9	511.7	511.3
42.5°	490.4	487.8	488.3	489.1	489.1
45°	466.9	464.8	464.8	465.6	465.6
47.5°	443.0	440.9	440.0	440.9	440.9
50°	417.0	414.8	414.0	414.8	414.8
52.5°	389.7	387.5	387.5	387.5	388.0
55°	361.5	359.4	358.5	359.4	359.8
57.5°	331.6	330.8	329.5	329.9	328.6
60°	299.6	299.6	298.3	299.2	298.3
62.5°	268.5	269.3	268.0	268.0	267.2
65°	236.4	237.3	236.0	236.0	235.2
67.5°	203.6	204.9	203.2	203.2	202.3
70°	169.4	172.0	170.3	170.7	169.9
72.5°	138.7	140.0	138.3	138.3	137.4
75°	108.0	108.8	107.1	107.6	106.3
77.5°	77.7	79.0	77.3	77.7	77.3
80°	52.1	52.5	51.2	51.6	50.8
82.5°	30.3	30.7	30.3	29.9	29.4
85°	13.7	14.1	13.7	13.7	13.2
87.5°	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)