

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: P973938

Luminaire Tested: FLR2-22-25HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973938
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-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

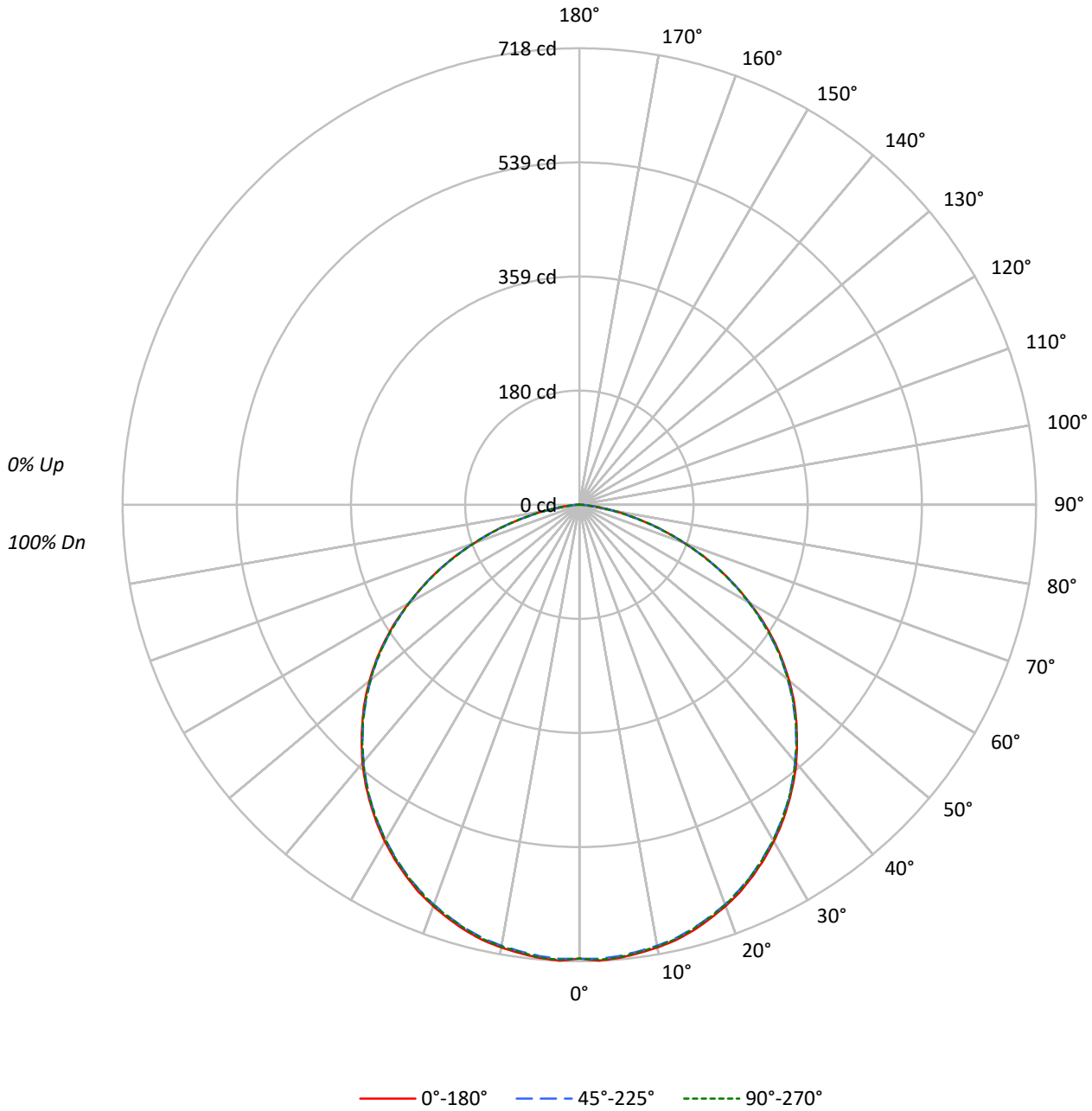
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1996.4 lumens
Efficiency: N/A
Efficacy: 104.0 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°	1921	1921	1921
5°	1933	1925	1931
10°	1933	1924	1928
15°	1931	1923	1925
20°	1924	1917	1919
25°	1914	1906	1908
30°	1900	1892	1894
35°	1883	1876	1877
40°	1864	1854	1855
45°	1836	1827	1831
50°	1804	1791	1794
55°	1752	1738	1744
60°	1666	1659	1659
65°	1556	1552	1547
70°	1378	1384	1381
75°	1160	1151	1142
80°	834	820	814
85°	435	435	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.6	3.4
10°-20°	194.4	9.7
20°-30°	295.4	14.8
30°-40°	357.1	17.9
40°-50°	370.6	18.6
50°-60°	331.3	16.6
60°-70°	240.9	12.1
70°-80°	118.5	5.9
80°-90°	20.5	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°	557.4	27.9
0°-40°	914.5	45.8
0°-60°	1616.5	81.0
0°-90°	1996.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1996.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	716	707	713	710	715	68
15°	693	685	690	688	691	196
25°	645	638	642	641	642	297
35°	573	569	571	572	572	359
45°	482	480	480	481	481	372
55°	374	371	370	371	372	333
65°	244	245	244	244	243	241
75°	112	112	111	111	110	118
85°	14	15	14	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.9	713.9	713.9	713.9	713.9
2.5°	717.9	709.5	714.8	711.7	716.5
5°	715.6	707.3	712.6	709.9	714.8
7.5°	711.7	703.3	708.6	705.9	709.9
10°	707.3	698.5	704.2	701.5	705.5
12.5°	701.5	693.2	698.5	696.2	699.8
15°	693.2	685.2	690.1	688.3	691.0
17.5°	683.0	675.1	679.9	678.6	680.8
20°	672.0	664.5	669.3	668.0	670.2
22.5°	659.6	651.7	656.1	655.2	657.0
25°	644.7	637.6	642.0	640.7	642.5
27.5°	628.8	622.2	625.7	625.7	626.6
30°	611.6	605.4	608.9	608.9	609.4
32.5°	593.1	588.2	590.4	590.9	590.9
35°	573.2	569.3	571.0	571.5	571.5
37.5°	552.5	548.5	549.9	550.7	550.7
40°	530.5	526.9	527.8	528.7	528.2
42.5°	506.6	504.0	504.4	505.3	505.3
45°	482.4	480.2	480.2	481.1	481.1
47.5°	457.7	455.5	454.6	455.5	455.5
50°	430.8	428.6	427.7	428.6	428.6
52.5°	402.6	400.4	400.4	400.4	400.8
55°	373.5	371.3	370.4	371.3	371.7
57.5°	342.6	341.7	340.4	340.8	339.5
60°	309.5	309.5	308.2	309.1	308.2
62.5°	277.4	278.2	276.9	276.9	276.0
65°	244.3	245.2	243.8	243.8	243.0
67.5°	210.3	211.7	209.9	209.9	209.0
70°	175.1	177.7	175.9	176.4	175.5
72.5°	143.3	144.6	142.9	142.9	142.0
75°	111.6	112.4	110.7	111.1	109.8
77.5°	80.3	81.6	79.8	80.3	79.8
80°	53.8	54.2	52.9	53.4	52.5
82.5°	31.3	31.7	31.3	30.9	30.4
85°	14.1	14.6	14.1	14.1	13.7
87.5°	3.5	3.5	3.5	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)