

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: P973968

Luminaire Tested: FLR2-22-25HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973968
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

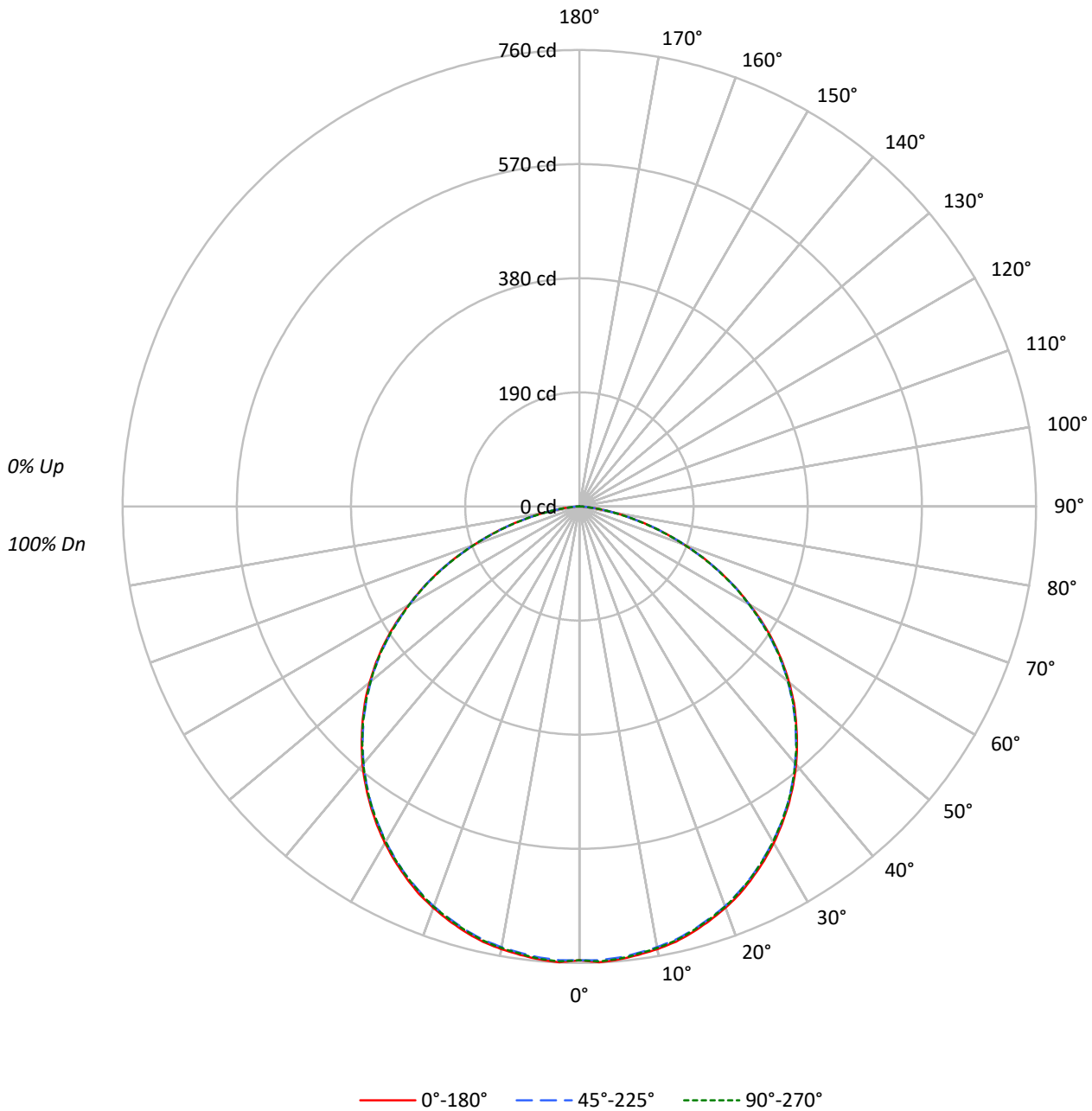
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2112.4 lumens
Efficiency: N/A
Efficacy: 110.0 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

TEST NUMBER: P973968
CATALOG NUMBER: FLR2-22-25HE-L940-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973968
 CATALOG NUMBER: FLR2-22-25HE-L940-CA125

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°	2033	2033	2033
5°	2045	2037	2043
10°	2045	2036	2040
15°	2043	2034	2037
20°	2036	2028	2031
25°	2025	2017	2018
30°	2011	2002	2004
35°	1992	1985	1986
40°	1972	1962	1964
45°	1942	1934	1937
50°	1908	1895	1899
55°	1854	1839	1845
60°	1763	1755	1755
65°	1646	1643	1637
70°	1457	1465	1461
75°	1227	1218	1208
80°	882	868	860
85°	460	460	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1942 cd/sqm



TEST NUMBER: P973968
 CATALOG NUMBER: FLR2-22-25HE-L940-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.4
10°-20°	205.7	9.7
20°-30°	312.6	14.8
30°-40°	377.8	17.9
40°-50°	392.2	18.6
50°-60°	350.6	16.6
60°-70°	254.9	12.1
70°-80°	125.4	5.9
80°-90°	21.7	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°	589.8	27.9
0°-40°	967.6	45.8
0°-60°	1710.4	81.0
0°-90°	2112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	757	748	754	751	756	72
15°	733	725	730	728	731	207
25°	682	675	679	678	680	314
35°	606	602	604	605	605	379
45°	510	508	508	509	509	394
55°	395	393	392	393	393	352
65°	258	259	258	258	257	255
75°	118	119	117	118	116	125
85°	15	15	15	15	14	22
90°	0	0	0	0	0	



TEST NUMBER: P973968
 CATALOG NUMBER: FLR2-22-25HE-L940-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.4	755.4	755.4	755.4	755.4
2.5°	759.6	750.7	756.3	753.0	758.2
5°	757.2	748.4	754.0	751.2	756.3
7.5°	753.0	744.2	749.8	747.0	751.2
10°	748.4	739.0	745.1	742.3	746.5
12.5°	742.3	733.4	739.0	736.7	740.4
15°	733.4	725.0	730.2	728.3	731.1
17.5°	722.7	714.3	719.4	718.1	720.4
20°	711.1	703.1	708.3	706.9	709.2
22.5°	698.0	689.6	694.3	693.3	695.2
25°	682.1	674.7	679.3	677.9	679.8
27.5°	665.3	658.3	662.1	662.1	663.0
30°	647.1	640.6	644.3	644.3	644.8
32.5°	627.5	622.4	624.7	625.2	625.2
35°	606.5	602.3	604.2	604.7	604.7
37.5°	584.6	580.4	581.8	582.7	582.7
40°	561.3	557.6	558.5	559.4	559.0
42.5°	536.1	533.3	533.8	534.7	534.7
45°	510.4	508.1	508.1	509.0	509.0
47.5°	484.3	482.0	481.0	482.0	482.0
50°	455.8	453.5	452.6	453.5	453.5
52.5°	426.0	423.6	423.6	423.6	424.1
55°	395.2	392.9	391.9	392.9	393.3
57.5°	362.5	361.6	360.2	360.7	359.3
60°	327.5	327.5	326.1	327.1	326.1
62.5°	293.5	294.4	293.0	293.0	292.1
65°	258.5	259.4	258.0	258.0	257.1
67.5°	222.6	224.0	222.1	222.1	221.2
70°	185.2	188.0	186.2	186.6	185.7
72.5°	151.6	153.0	151.2	151.2	150.2
75°	118.0	119.0	117.1	117.6	116.2
77.5°	84.9	86.3	84.4	84.9	84.4
80°	56.9	57.4	56.0	56.5	55.5
82.5°	33.1	33.6	33.1	32.7	32.2
85°	14.9	15.4	14.9	14.9	14.5
87.5°	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)