

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: P973860

Luminaire Tested: FLR2-22-25HE-L935-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973860
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

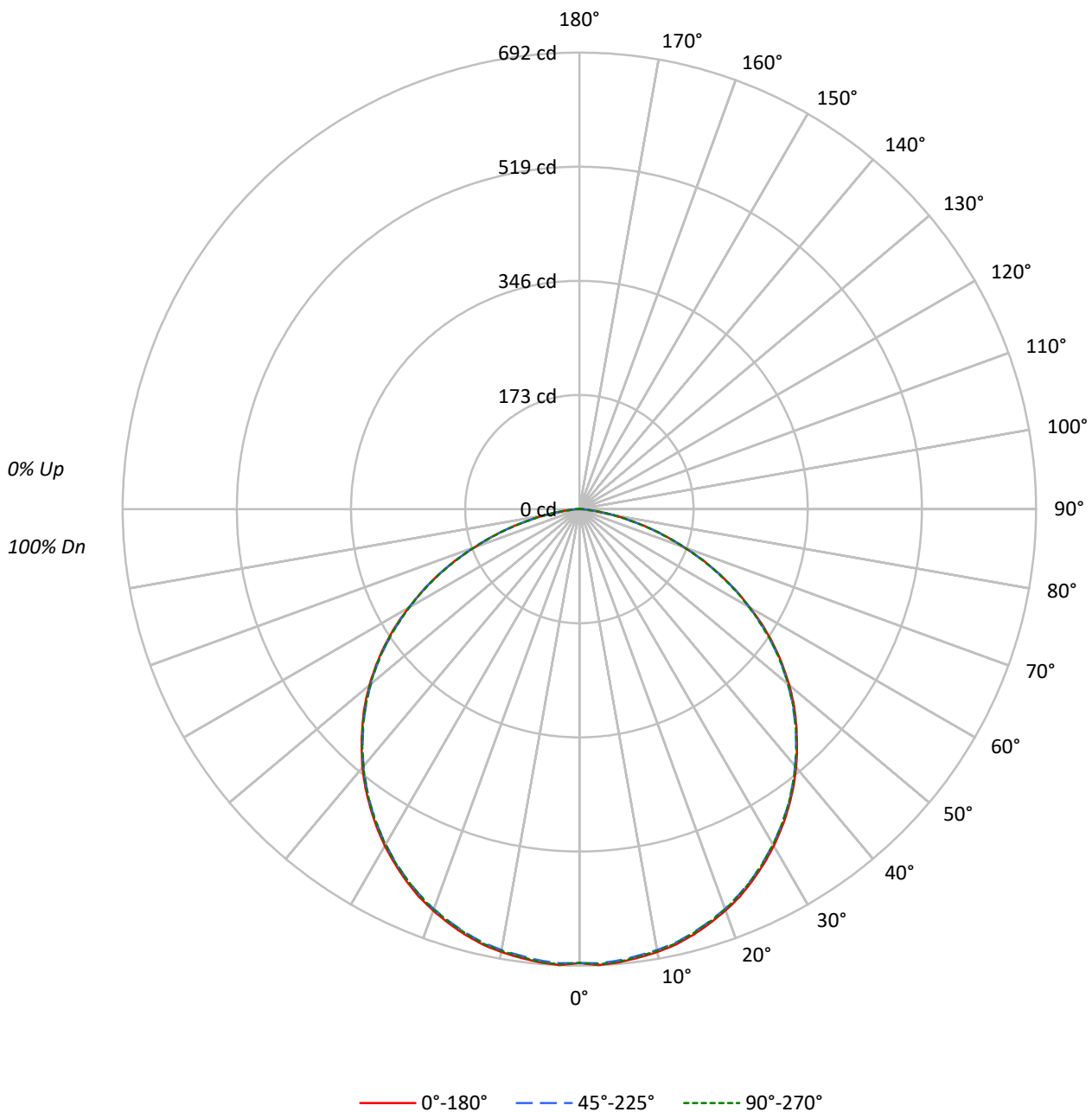
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1923.8 lumens
Efficiency: N/A
Efficacy: 100.2 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: P973860
CATALOG NUMBER: FLR2-22-25HE-L935-CP187

Luminous Intensity Polar Plot





TEST NUMBER: P973860
 CATALOG NUMBER: FLR2-22-25HE-L935-CP187

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°	1851	1851	1851
5°	1863	1855	1861
10°	1862	1854	1858
15°	1861	1853	1855
20°	1855	1847	1850
25°	1844	1837	1838
30°	1831	1823	1825
35°	1815	1808	1809
40°	1796	1787	1788
45°	1769	1761	1764
50°	1738	1726	1729
55°	1688	1674	1681
60°	1605	1598	1598
65°	1499	1496	1491
70°	1327	1334	1330
75°	1118	1109	1100
80°	803	790	784
85°	420	420	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1769 cd/sqm



TEST NUMBER: P973860
 CATALOG NUMBER: FLR2-22-25HE-L935-CP187

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	3.4
10°-20°	187.3	9.7
20°-30°	284.7	14.8
30°-40°	344.1	17.9
40°-50°	357.2	18.6
50°-60°	319.3	16.6
60°-70°	232.2	12.1
70°-80°	114.2	5.9
80°-90°	19.8	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°	537.2	27.9
0°-40°	881.3	45.8
0°-60°	1557.7	81.0
0°-90°	1923.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	690	682	687	684	689	66
15°	668	660	665	663	666	188
25°	621	614	619	617	619	286
35°	552	549	550	551	551	346
45°	465	463	463	464	464	359
55°	360	358	357	358	358	321
65°	235	236	235	235	234	232
75°	108	108	107	107	106	114
85°	14	14	14	14	13	20
90°	0	0	0	0	0	



TEST NUMBER: P973860
 CATALOG NUMBER: FLR2-22-25HE-L935-CP187

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	687.9	687.9	687.9	687.9	687.9
2.5°	691.8	683.7	688.8	685.8	690.5
5°	689.6	681.6	686.7	684.1	688.8
7.5°	685.8	677.7	682.8	680.3	684.1
10°	681.6	673.1	678.6	676.0	679.9
12.5°	676.0	668.0	673.1	670.9	674.3
15°	668.0	660.3	665.0	663.3	665.8
17.5°	658.2	650.5	655.2	653.9	656.1
20°	647.6	640.3	645.0	643.7	645.9
22.5°	635.7	628.0	632.3	631.4	633.1
25°	621.2	614.4	618.7	617.4	619.1
27.5°	605.9	599.6	603.0	603.0	603.8
30°	589.4	583.4	586.8	586.8	587.2
32.5°	571.5	566.8	569.0	569.4	569.4
35°	552.4	548.6	550.3	550.7	550.7
37.5°	532.4	528.6	529.9	530.7	530.7
40°	511.2	507.8	508.6	509.5	509.0
42.5°	488.2	485.7	486.1	487.0	487.0
45°	464.9	462.7	462.7	463.6	463.6
47.5°	441.1	438.9	438.1	438.9	438.9
50°	415.1	413.0	412.2	413.0	413.0
52.5°	387.9	385.8	385.8	385.8	386.2
55°	359.9	357.8	356.9	357.8	358.2
57.5°	330.2	329.3	328.0	328.5	327.2
60°	298.3	298.3	297.0	297.9	297.0
62.5°	267.3	268.1	266.8	266.8	266.0
65°	235.4	236.3	235.0	235.0	234.1
67.5°	202.7	204.0	202.3	202.3	201.4
70°	168.7	171.2	169.5	170.0	169.1
72.5°	138.1	139.4	137.7	137.7	136.8
75°	107.5	108.4	106.7	107.1	105.8
77.5°	77.3	78.6	76.9	77.3	76.9
80°	51.8	52.3	51.0	51.4	50.6
82.5°	30.2	30.6	30.2	29.7	29.3
85°	13.6	14.0	13.6	13.6	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)