

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: P973895

Luminaire Tested: FLR2-22-20HE-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973895
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: FLR2-22-20HE-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

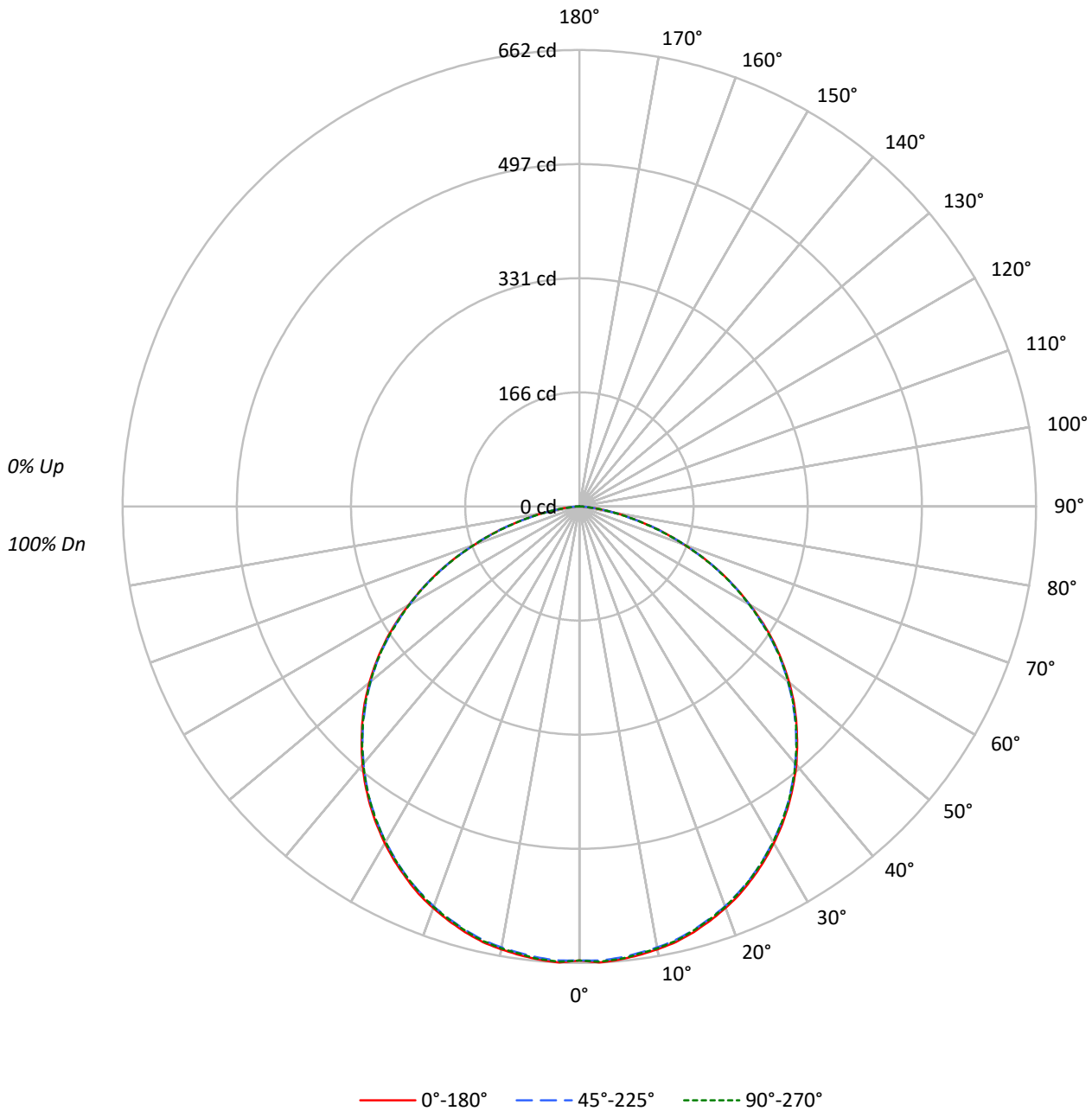
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1841.2 lumens
Efficiency: N/A
Efficacy: 124.4 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): 14.8
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: P973895
CATALOG NUMBER: FLR2-22-20HE-L840-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973895
 CATALOG NUMBER: FLR2-22-20HE-L840-CP125

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°	1772	1772	1772
5°	1783	1775	1781
10°	1782	1774	1778
15°	1781	1773	1775
20°	1775	1768	1770
25°	1765	1758	1759
30°	1753	1745	1746
35°	1737	1730	1731
40°	1718	1710	1711
45°	1693	1686	1689
50°	1663	1652	1655
55°	1616	1603	1608
60°	1537	1530	1530
65°	1435	1432	1427
70°	1270	1277	1274
75°	1070	1062	1053
80°	769	756	750
85°	401	401	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1693 cd/sqm



TEST NUMBER: P973895
 CATALOG NUMBER: FLR2-22-20HE-L840-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	3.4
10°-20°	179.3	9.7
20°-30°	272.5	14.8
30°-40°	329.3	17.9
40°-50°	341.8	18.6
50°-60°	305.6	16.6
60°-70°	222.2	12.1
70°-80°	109.3	5.9
80°-90°	19.0	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°	514.1	27.9
0°-40°	843.4	45.8
0°-60°	1490.8	81.0
0°-90°	1841.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	658	658	658	658	658	
5°	660	652	657	655	659	63
15°	639	632	636	635	637	180
25°	594	588	592	591	592	274
35°	529	525	527	527	527	331
45°	445	443	443	444	444	343
55°	344	342	342	342	343	307
65°	225	226	225	225	224	222
75°	103	104	102	102	101	109
85°	13	13	13	13	13	19
90°	0	0	0	0	0	



TEST NUMBER: P973895
 CATALOG NUMBER: FLR2-22-20HE-L840-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	658.4	658.4	658.4	658.4	658.4
2.5°	662.0	654.3	659.2	656.4	660.8
5°	660.0	652.3	657.2	654.7	659.2
7.5°	656.4	648.6	653.5	651.1	654.7
10°	652.3	644.2	649.4	647.0	650.7
12.5°	647.0	639.3	644.2	642.1	645.4
15°	639.3	632.0	636.4	634.8	637.2
17.5°	629.9	622.6	627.1	625.9	627.9
20°	619.8	612.8	617.3	616.1	618.1
22.5°	608.4	601.0	605.1	604.3	605.9
25°	594.5	588.0	592.1	590.9	592.5
27.5°	579.9	573.8	577.1	577.1	577.9
30°	564.0	558.3	561.6	561.6	562.0
32.5°	547.0	542.5	544.5	544.9	544.9
35°	528.7	525.0	526.6	527.0	527.0
37.5°	509.5	505.9	507.1	507.9	507.9
40°	489.2	486.0	486.8	487.6	487.2
42.5°	467.3	464.8	465.2	466.0	466.0
45°	444.9	442.9	442.9	443.7	443.7
47.5°	422.1	420.1	419.3	420.1	420.1
50°	397.3	395.3	394.5	395.3	395.3
52.5°	371.3	369.2	369.2	369.2	369.7
55°	344.4	342.4	341.6	342.4	342.8
57.5°	316.0	315.2	313.9	314.3	313.1
60°	285.5	285.5	284.3	285.1	284.3
62.5°	255.8	256.6	255.4	255.4	254.6
65°	225.3	226.1	224.9	224.9	224.1
67.5°	194.0	195.2	193.6	193.6	192.8
70°	161.4	163.9	162.3	162.7	161.9
72.5°	132.2	133.4	131.8	131.8	130.9
75°	102.9	103.7	102.1	102.5	101.3
77.5°	74.0	75.2	73.6	74.0	73.6
80°	49.6	50.0	48.8	49.2	48.4
82.5°	28.9	29.3	28.9	28.5	28.1
85°	13.0	13.4	13.0	13.0	12.6
87.5°	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)