

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: P973746

Luminaire Tested: FLR2-22-25HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973746
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-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

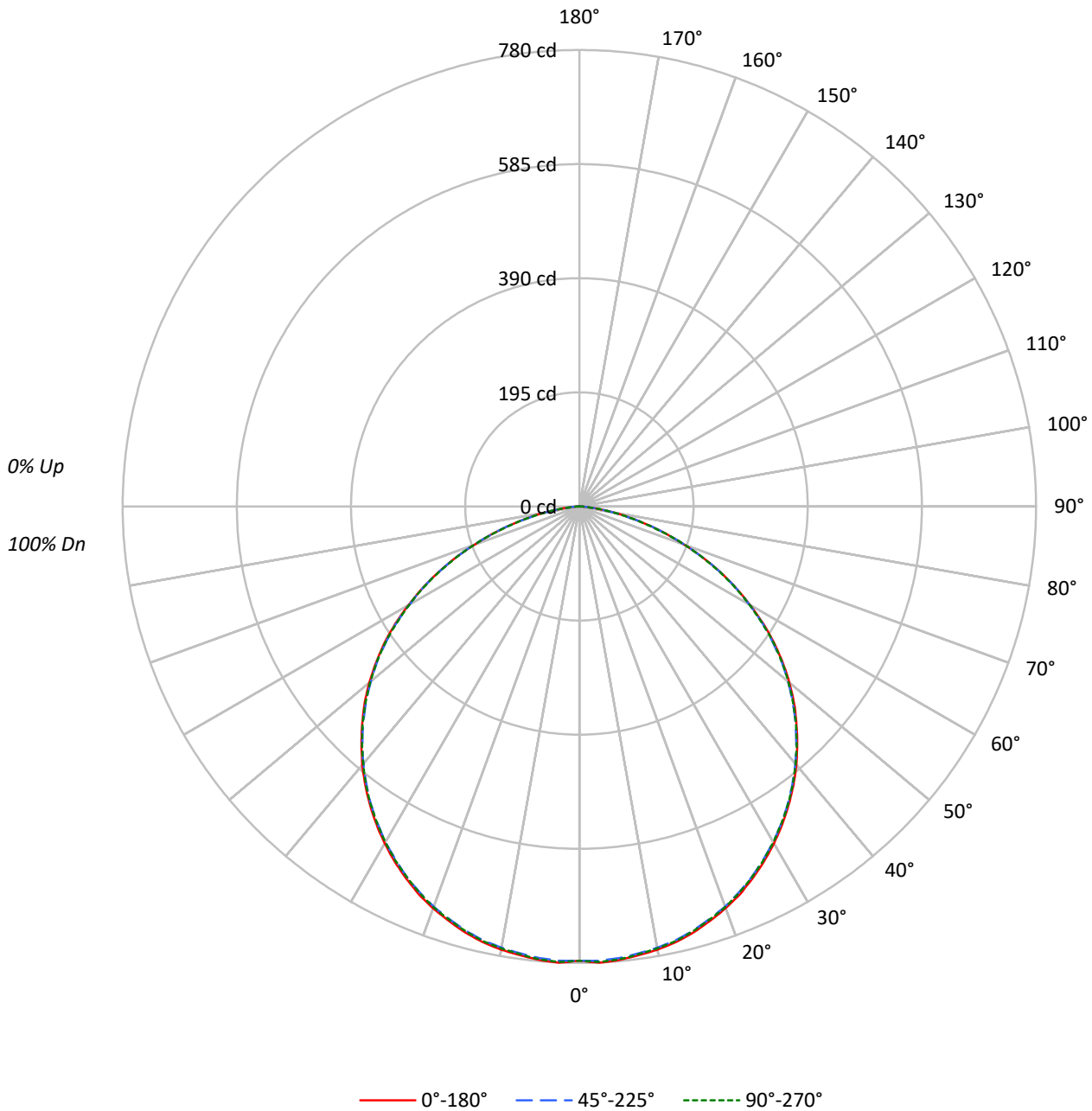
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2170.4 lumens
Efficiency: N/A
Efficacy: 113.0 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: P973746
CATALOG NUMBER: FLR2-22-25HE-L830-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P973746
 CATALOG NUMBER: FLR2-22-25HE-L830-CP375

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°	2088	2088	2088
5°	2102	2093	2099
10°	2101	2092	2096
15°	2099	2090	2093
20°	2092	2084	2086
25°	2081	2072	2074
30°	2066	2057	2059
35°	2047	2039	2041
40°	2026	2016	2017
45°	1996	1987	1990
50°	1961	1947	1950
55°	1905	1889	1896
60°	1811	1803	1803
65°	1691	1688	1682
70°	1497	1505	1501
75°	1261	1251	1241
80°	907	891	883
85°	472	472	460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1996 cd/sqm



TEST NUMBER: P973746
 CATALOG NUMBER: FLR2-22-25HE-L830-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	3.4
10°-20°	211.3	9.7
20°-30°	321.2	14.8
30°-40°	388.2	17.9
40°-50°	402.9	18.6
50°-60°	360.2	16.6
60°-70°	261.9	12.1
70°-80°	128.8	5.9
80°-90°	22.3	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°	606.0	27.9
0°-40°	994.2	45.8
0°-60°	1757.3	81.0
0°-90°	2170.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2170.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	778	769	775	772	777	74
15°	754	745	750	748	751	213
25°	701	693	698	696	698	323
35°	623	619	621	621	621	390
45°	524	522	522	523	523	405
55°	406	404	403	404	404	362
65°	266	266	265	265	264	262
75°	121	122	120	121	119	129
85°	15	16	15	15	15	22
90°	0	0	0	0	0	



TEST NUMBER: P973746
 CATALOG NUMBER: FLR2-22-25HE-L830-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.1	776.1	776.1	776.1	776.1
2.5°	780.4	771.3	777.1	773.7	779.0
5°	778.0	768.9	774.7	771.8	777.1
7.5°	773.7	764.6	770.3	767.5	771.8
10°	768.9	759.3	765.5	762.7	767.0
12.5°	762.7	753.6	759.3	756.9	760.8
15°	753.6	744.9	750.2	748.3	751.2
17.5°	742.5	733.9	739.2	737.7	740.1
20°	730.6	722.4	727.7	726.2	728.6
22.5°	717.1	708.5	713.3	712.3	714.3
25°	700.8	693.2	698.0	696.5	698.4
27.5°	683.6	676.4	680.2	680.2	681.2
30°	664.9	658.2	662.0	662.0	662.5
32.5°	644.7	639.5	641.9	642.4	642.4
35°	623.2	618.9	620.8	621.3	621.3
37.5°	600.6	596.3	597.8	598.7	598.7
40°	576.7	572.8	573.8	574.8	574.3
42.5°	550.8	547.9	548.4	549.4	549.4
45°	524.4	522.0	522.0	523.0	523.0
47.5°	497.6	495.2	494.2	495.2	495.2
50°	468.3	465.9	465.0	465.9	465.9
52.5°	437.7	435.3	435.3	435.3	435.7
55°	406.0	403.6	402.7	403.6	404.1
57.5°	372.5	371.5	370.1	370.5	369.1
60°	336.5	336.5	335.1	336.0	335.1
62.5°	301.5	302.5	301.0	301.0	300.1
65°	265.6	266.5	265.1	265.1	264.1
67.5°	228.7	230.1	228.2	228.2	227.2
70°	190.3	193.2	191.3	191.7	190.8
72.5°	155.8	157.2	155.3	155.3	154.4
75°	121.3	122.2	120.3	120.8	119.4
77.5°	87.2	88.7	86.8	87.2	86.8
80°	58.5	59.0	57.5	58.0	57.0
82.5°	34.0	34.5	34.0	33.6	33.1
85°	15.3	15.8	15.3	15.3	14.9
87.5°	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)