

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: P973830

Luminaire Tested: FLR2-22-25HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973830
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-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

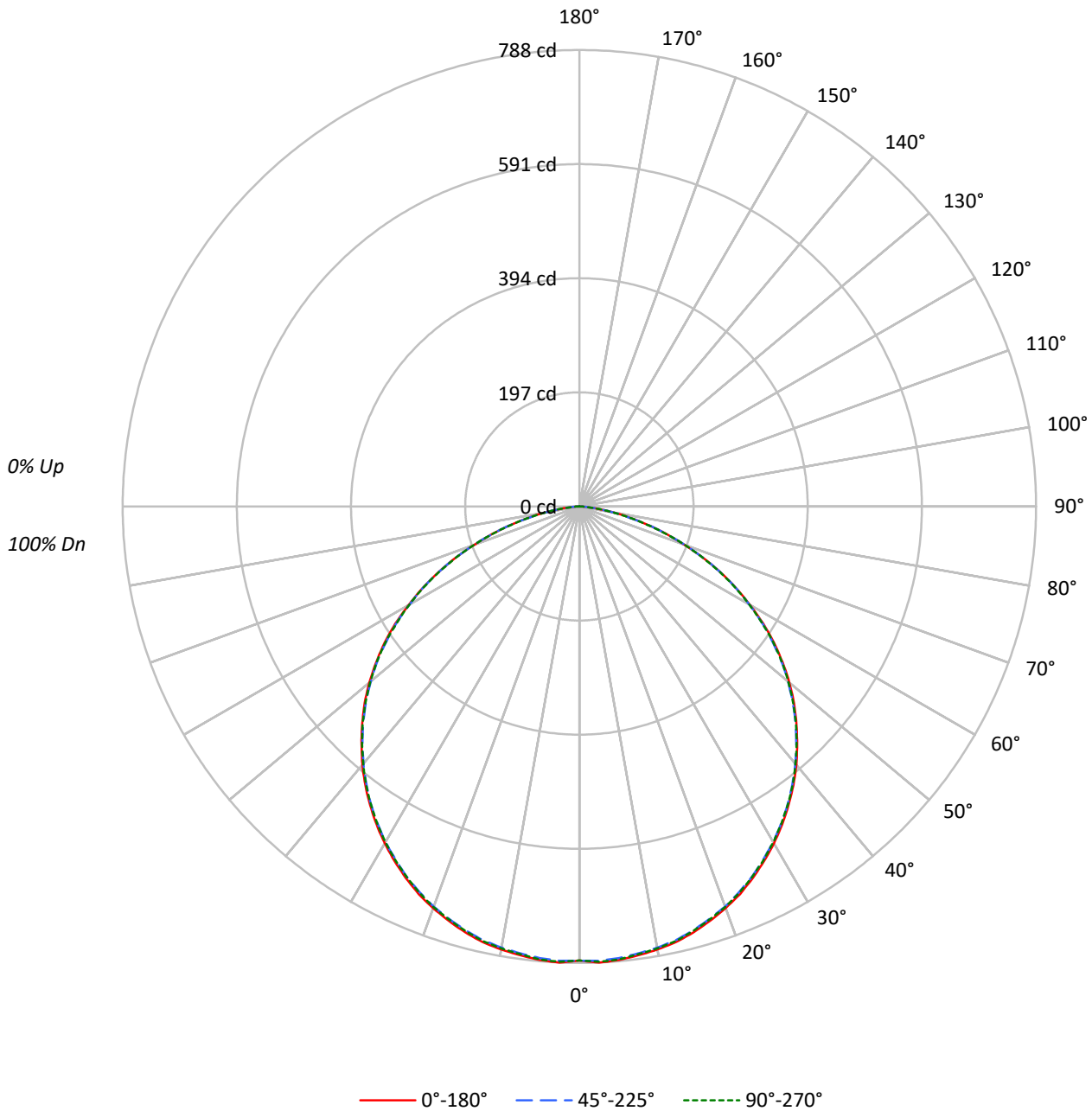
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2192.3 lumens
Efficiency: N/A
Efficacy: 114.2 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

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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																				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85																				
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																				
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60																				
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																				
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44																				
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39																				
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30																				
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27																				
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2109	2109	2109
5°	2123	2114	2120
10°	2122	2113	2117
15°	2121	2111	2114
20°	2113	2105	2108
25°	2102	2093	2095
30°	2087	2078	2079
35°	2068	2060	2061
40°	2046	2036	2038
45°	2016	2007	2011
50°	1981	1966	1970
55°	1924	1908	1915
60°	1829	1822	1822
65°	1708	1705	1699
70°	1512	1520	1516
75°	1274	1263	1254
80°	916	900	893
85°	479	479	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2016 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	3.4
10°-20°	213.5	9.7
20°-30°	324.4	14.8
30°-40°	392.1	17.9
40°-50°	407.0	18.6
50°-60°	363.9	16.6
60°-70°	264.6	12.1
70°-80°	130.1	5.9
80°-90°	22.6	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°	612.1	27.9
0°-40°	1004.2	45.8
0°-60°	1775.1	81.0
0°-90°	2192.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2192.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	784	784	784	784	784	
5°	786	777	782	780	785	75
15°	761	752	758	756	759	215
25°	708	700	705	704	706	326
35°	630	625	627	628	628	394
45°	530	527	527	528	528	409
55°	410	408	407	408	408	366
65°	268	269	268	268	267	265
75°	122	124	122	122	121	130
85°	16	16	16	16	15	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.9	783.9	783.9	783.9	783.9
2.5°	788.3	779.1	784.9	781.5	786.8
5°	785.9	776.7	782.5	779.6	784.9
7.5°	781.5	772.3	778.1	775.2	779.6
10°	776.7	767.0	773.3	770.4	774.7
12.5°	770.4	761.2	767.0	764.6	768.4
15°	761.2	752.5	757.8	755.8	758.8
17.5°	750.0	741.3	746.6	745.2	747.6
20°	737.9	729.7	735.0	733.6	736.0
22.5°	724.4	715.7	720.5	719.5	721.5
25°	707.9	700.2	705.0	703.6	705.5
27.5°	690.5	683.2	687.1	687.1	688.1
30°	671.6	664.8	668.7	668.7	669.2
32.5°	651.3	645.9	648.4	648.8	648.8
35°	629.5	625.1	627.0	627.5	627.5
37.5°	606.7	602.4	603.8	604.8	604.8
40°	582.5	578.6	579.6	580.6	580.1
42.5°	556.4	553.4	553.9	554.9	554.9
45°	529.7	527.3	527.3	528.3	528.3
47.5°	502.6	500.2	499.2	500.2	500.2
50°	473.1	470.6	469.7	470.6	470.6
52.5°	442.1	439.7	439.7	439.7	440.1
55°	410.1	407.7	406.7	407.7	408.2
57.5°	376.2	375.3	373.8	374.3	372.8
60°	339.9	339.9	338.5	339.4	338.5
62.5°	304.6	305.5	304.1	304.1	303.1
65°	268.3	269.2	267.8	267.8	266.8
67.5°	231.0	232.4	230.5	230.5	229.5
70°	192.2	195.1	193.2	193.7	192.7
72.5°	157.4	158.8	156.9	156.9	155.9
75°	122.5	123.5	121.5	122.0	120.6
77.5°	88.1	89.6	87.6	88.1	87.6
80°	59.1	59.6	58.1	58.6	57.6
82.5°	34.4	34.9	34.4	33.9	33.4
85°	15.5	16.0	15.5	15.5	15.0
87.5°	3.9	3.9	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)