

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: P973130

Luminaire Tested: FLR2-14-30HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-30HE-L835-CP187
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 80CRI Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

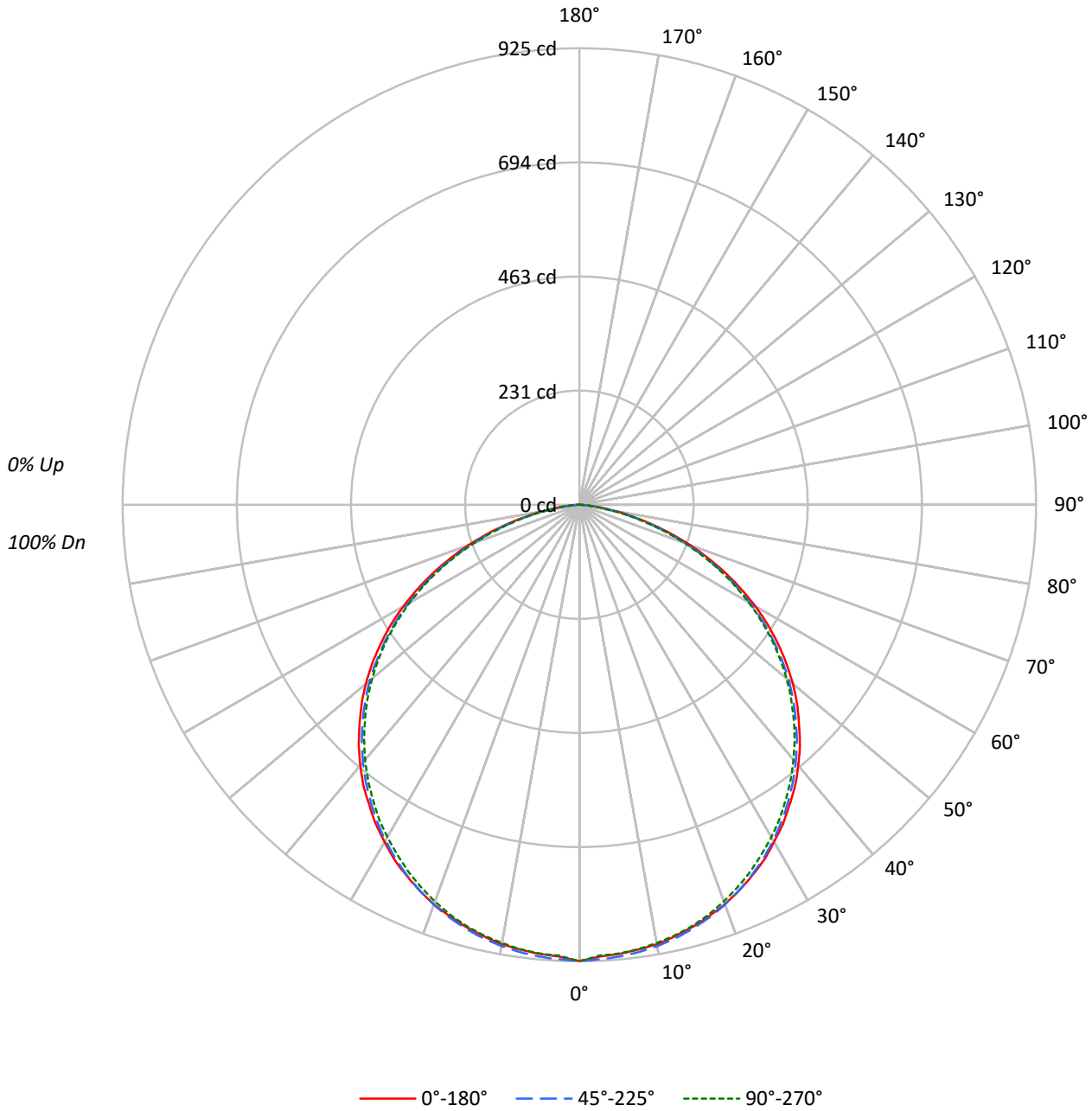
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2588.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.4
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	62	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	70	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	49	42	37	48	41	36	47	41	36	34																				
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2488	2488	2488
5°	2469	2484	2466
10°	2472	2482	2464
15°	2467	2477	2462
20°	2467	2470	2450
25°	2462	2457	2434
30°	2451	2440	2417
35°	2438	2419	2395
40°	2424	2395	2370
45°	2395	2361	2336
50°	2364	2320	2293
55°	2304	2250	2228
60°	2215	2153	2134
65°	2074	2013	1991
70°	1870	1795	1780
75°	1568	1489	1472
80°	1139	1062	1032
85°	602	531	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2395 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	3.4
10°-20°	251.5	9.7
20°-30°	382.2	14.8
30°-40°	462.3	17.9
40°-50°	480.4	18.6
50°-60°	430.2	16.6
60°-70°	313.7	12.1
70°-80°	154.5	6.0
80°-90°	25.8	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°	721.3	27.9
0°-40°	1183.6	45.7
0°-60°	2094.2	80.9
0°-90°	2588.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2588.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	914	924	919	928	913	87
15°	886	894	889	897	884	250
25°	829	833	828	831	820	382
35°	742	744	736	740	729	465
45°	629	628	620	622	614	486
55°	491	487	480	478	475	438
65°	326	322	316	314	313	322
75°	151	148	143	142	142	161
85°	20	19	17	15	16	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.7	924.7	924.7	924.7	924.7
2.5°	916.7	927.0	922.1	931.3	914.8
5°	914.0	924.0	919.4	928.2	912.9
7.5°	909.4	919.8	914.8	923.2	908.7
10°	904.5	913.6	908.3	916.7	901.8
12.5°	895.7	904.8	899.9	907.5	893.7
15°	885.7	893.7	889.2	896.8	883.8
17.5°	874.2	881.9	876.9	883.8	870.8
20°	861.6	867.7	862.4	868.1	855.5
22.5°	845.9	851.6	845.9	849.7	838.6
25°	829.1	833.3	827.5	831.4	819.9
27.5°	811.1	813.4	807.6	810.7	798.8
30°	788.9	791.5	785.4	789.3	777.8
32.5°	767.4	769.0	762.1	765.1	754.8
35°	742.2	743.7	736.4	739.5	729.2
37.5°	718.1	717.7	710.0	711.9	703.1
40°	690.1	689.7	681.7	683.2	674.8
42.5°	661.4	659.9	652.2	653.0	645.3
45°	629.3	628.5	620.5	621.6	613.9
47.5°	598.3	596.0	587.9	588.3	581.8
50°	564.6	561.1	554.2	553.5	547.7
52.5°	528.6	524.8	517.1	516.3	512.1
55°	491.1	486.9	479.6	478.5	475.0
57.5°	452.4	447.1	441.3	439.0	436.3
60°	411.5	406.5	400.0	397.7	396.5
62.5°	369.0	364.0	359.0	356.7	355.2
65°	325.7	321.9	316.2	313.9	312.7
67.5°	281.7	278.3	272.9	270.2	269.8
70°	237.7	234.2	228.1	226.6	226.2
72.5°	193.7	190.6	184.9	183.3	183.3
75°	150.8	148.1	143.2	141.6	141.6
77.5°	110.2	107.9	104.1	102.2	102.2
80°	73.5	72.0	68.5	67.0	66.6
82.5°	42.5	41.7	38.7	37.1	37.9
85°	19.5	18.8	17.2	15.3	15.7
87.5°	5.0	4.6	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)