

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: P973405

Luminaire Tested: FLR2-14-30-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973405
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: FLR2-14-30-L935-CP375
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 90 CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

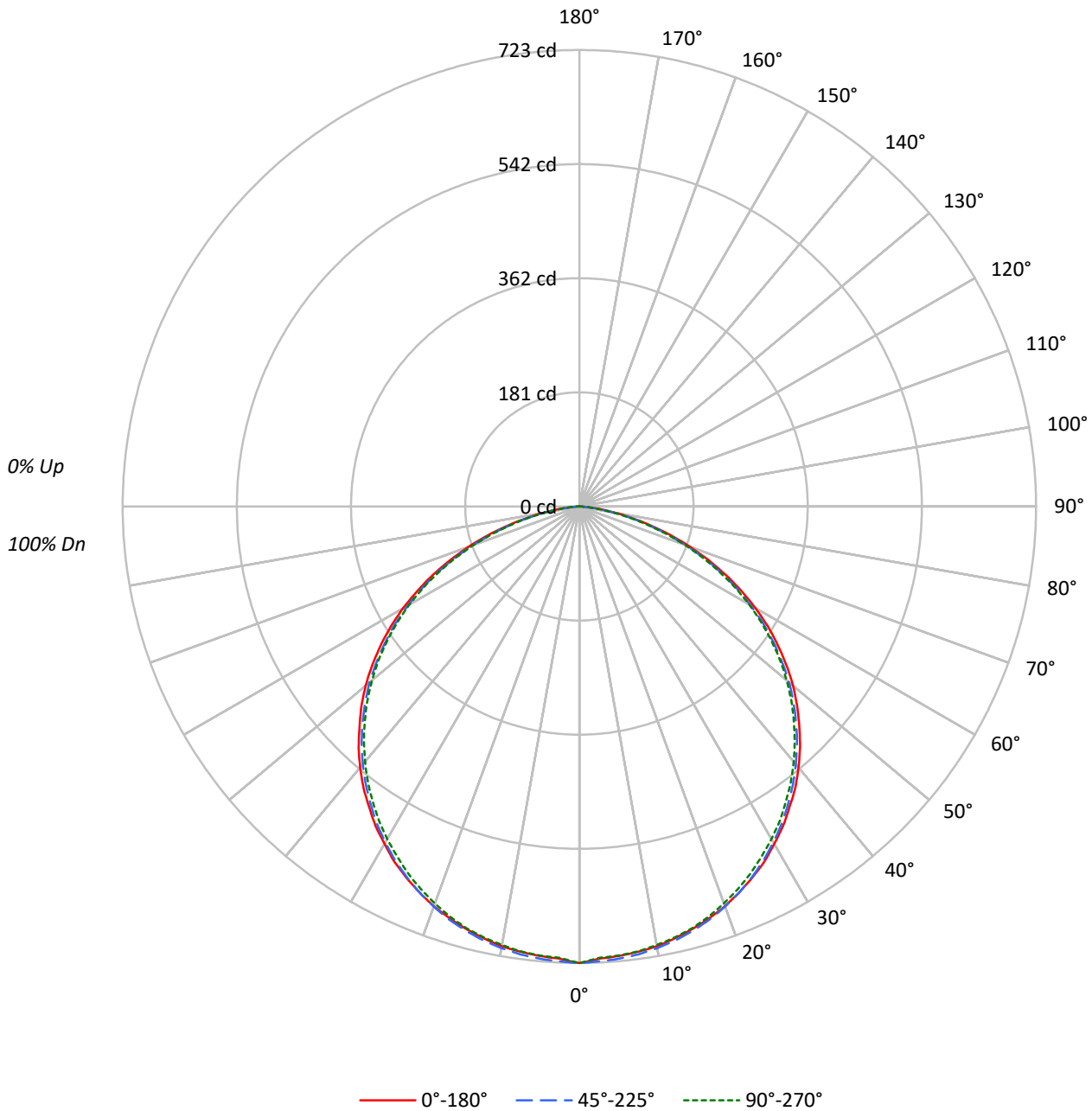
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2024.4 lumens
Efficiency: N/A
Efficacy: 84.7 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): 23.9
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				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	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°	1946	1946	1946
5°	1931	1942	1929
10°	1933	1941	1927
15°	1930	1938	1926
20°	1930	1932	1916
25°	1926	1922	1904
30°	1917	1909	1890
35°	1907	1892	1873
40°	1896	1873	1854
45°	1873	1847	1827
50°	1849	1815	1793
55°	1802	1760	1743
60°	1732	1683	1669
65°	1622	1575	1557
70°	1463	1404	1392
75°	1227	1164	1152
80°	891	831	807
85°	472	417	380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1873 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	3.4
10°-20°	196.7	9.7
20°-30°	298.9	14.8
30°-40°	361.6	17.9
40°-50°	375.8	18.6
50°-60°	336.5	16.6
60°-70°	245.4	12.1
70°-80°	120.8	6.0
80°-90°	20.2	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°	564.2	27.9
0°-40°	925.7	45.7
0°-60°	1638.0	80.9
0°-90°	2024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2024.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	723	723	723	723	723	
5°	715	723	719	726	714	68
15°	693	699	696	701	691	196
25°	648	652	647	650	641	299
35°	580	582	576	578	570	364
45°	492	492	485	486	480	380
55°	384	381	375	374	372	343
65°	255	252	247	246	245	252
75°	118	116	112	111	111	126
85°	15	15	14	12	12	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	723.3	723.3	723.3	723.3	723.3
2.5°	717.0	725.1	721.2	728.4	715.5
5°	714.9	722.7	719.1	726.0	714.0
7.5°	711.3	719.4	715.5	722.1	710.7
10°	707.4	714.6	710.4	717.0	705.3
12.5°	700.5	707.7	703.8	709.8	699.0
15°	692.8	699.0	695.5	701.4	691.3
17.5°	683.8	689.8	685.9	691.3	681.1
20°	673.9	678.7	674.5	679.0	669.1
22.5°	661.6	666.1	661.6	664.6	655.9
25°	648.5	651.7	647.3	650.2	641.3
27.5°	634.4	636.2	631.7	634.1	624.8
30°	617.0	619.1	614.3	617.3	608.3
32.5°	600.3	601.4	596.1	598.5	590.4
35°	580.5	581.7	576.0	578.4	570.3
37.5°	561.6	561.3	555.3	556.8	550.0
40°	539.8	539.5	533.2	534.4	527.8
42.5°	517.3	516.1	510.1	510.7	504.8
45°	492.2	491.6	485.3	486.2	480.2
47.5°	467.9	466.1	459.8	460.1	455.1
50°	441.6	438.9	433.5	432.9	428.4
52.5°	413.4	410.4	404.5	403.9	400.6
55°	384.1	380.8	375.1	374.2	371.5
57.5°	353.9	349.7	345.2	343.4	341.3
60°	321.8	317.9	312.8	311.1	310.2
62.5°	288.6	284.7	280.8	279.0	277.8
65°	254.8	251.8	247.3	245.5	244.6
67.5°	220.3	217.6	213.5	211.4	211.1
70°	185.9	183.2	178.4	177.2	176.9
72.5°	151.5	149.1	144.6	143.4	143.4
75°	118.0	115.9	112.0	110.8	110.8
77.5°	86.2	84.4	81.4	79.9	79.9
80°	57.5	56.3	53.6	52.4	52.1
82.5°	33.2	32.6	30.2	29.0	29.6
85°	15.3	14.7	13.5	12.0	12.3
87.5°	3.9	3.6	2.7	2.1	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)