

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: P973384

Luminaire Tested: FLR2-14-30-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973384
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-L835-CP375
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

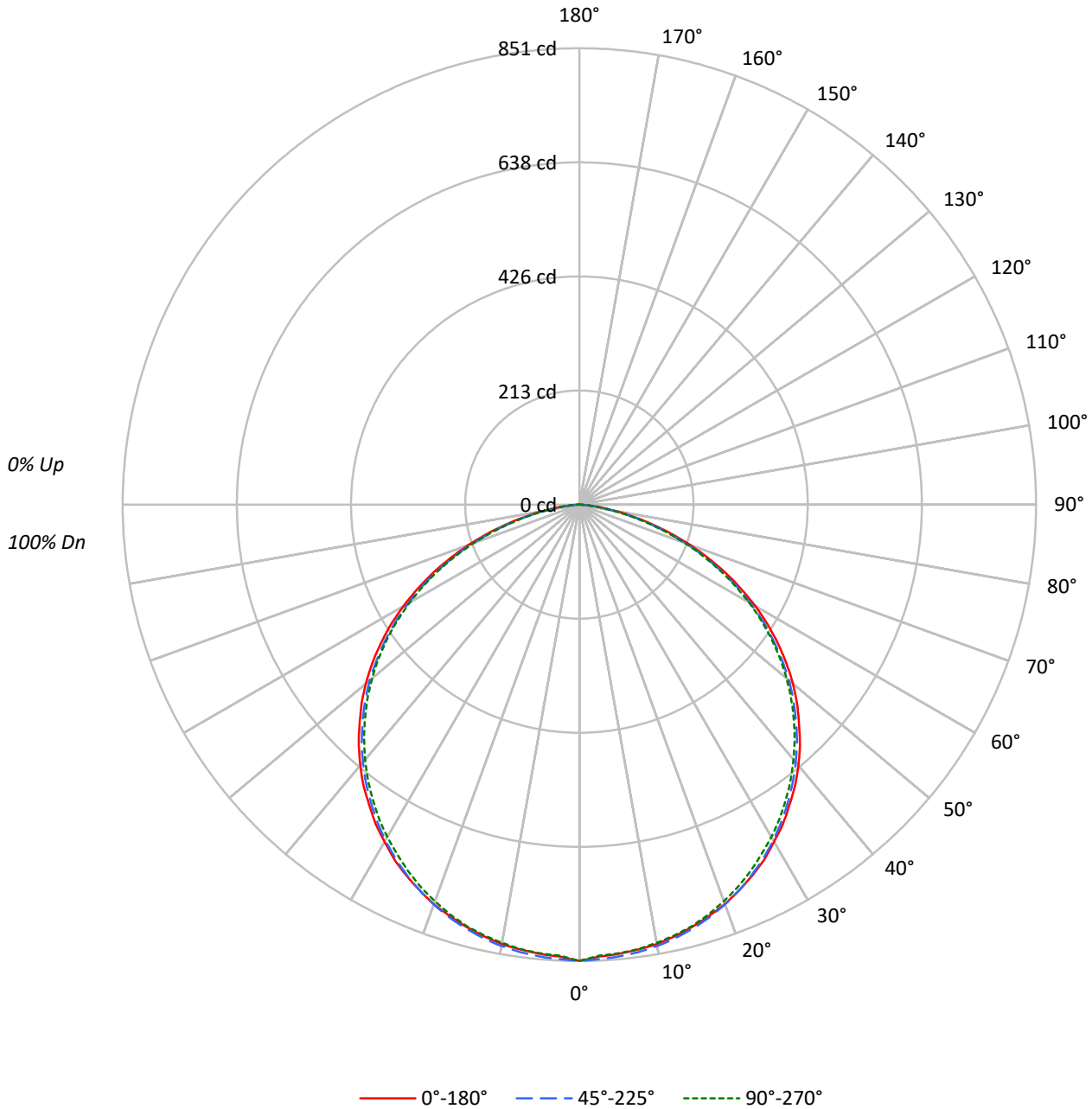
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2381.6 lumens
Efficiency: N/A
Efficacy: 99.7 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 (A_{in}): 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°	2290	2290	2290
5°	2272	2285	2269
10°	2274	2284	2267
15°	2271	2279	2265
20°	2270	2272	2254
25°	2265	2261	2240
30°	2256	2246	2224
35°	2243	2226	2204
40°	2231	2204	2181
45°	2203	2173	2150
50°	2175	2135	2110
55°	2120	2070	2051
60°	2038	1981	1964
65°	1908	1852	1833
70°	1721	1651	1638
75°	1443	1369	1355
80°	1048	976	950
85°	556	488	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2203 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.4
10°-20°	231.5	9.7
20°-30°	351.7	14.8
30°-40°	425.4	17.9
40°-50°	442.1	18.6
50°-60°	395.8	16.6
60°-70°	288.7	12.1
70°-80°	142.2	6.0
80°-90°	23.8	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°	663.7	27.9
0°-40°	1089.1	45.7
0°-60°	1927.0	80.9
0°-90°	2381.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	841	850	846	854	840	80
15°	815	822	818	825	813	230
25°	763	767	762	765	754	352
35°	683	684	678	680	671	428
45°	579	578	571	572	565	447
55°	452	448	441	440	437	403
65°	300	296	291	289	288	296
75°	139	136	132	130	130	148
85°	18	17	16	14	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.9	850.9	850.9	850.9	850.9
2.5°	843.5	853.0	848.5	856.9	841.8
5°	841.1	850.2	846.0	854.1	840.0
7.5°	836.8	846.4	841.8	849.5	836.1
10°	832.3	840.7	835.8	843.5	829.8
12.5°	824.2	832.6	828.0	835.1	822.4
15°	815.0	822.4	818.2	825.2	813.2
17.5°	804.4	811.5	806.9	813.2	801.3
20°	792.8	798.5	793.5	798.8	787.2
22.5°	778.4	783.7	778.4	781.9	771.7
25°	762.9	766.8	761.5	765.0	754.4
27.5°	746.3	748.4	743.2	746.0	735.1
30°	725.9	728.4	722.7	726.3	715.7
32.5°	706.2	707.6	701.2	704.1	694.6
35°	682.9	684.3	677.6	680.5	671.0
37.5°	660.7	660.4	653.3	655.1	647.0
40°	635.0	634.7	627.3	628.7	620.9
42.5°	608.6	607.2	600.2	600.9	593.8
45°	579.0	578.3	570.9	572.0	564.9
47.5°	550.5	548.4	541.0	541.3	535.4
50°	519.5	516.3	510.0	509.3	504.0
52.5°	486.4	482.9	475.8	475.1	471.3
55°	451.9	448.0	441.3	440.3	437.1
57.5°	416.3	411.4	406.1	404.0	401.5
60°	378.6	374.0	368.1	365.9	364.9
62.5°	339.5	335.0	330.4	328.3	326.8
65°	299.7	296.2	290.9	288.8	287.8
67.5°	259.2	256.1	251.1	248.7	248.3
70°	218.7	215.6	209.9	208.5	208.2
72.5°	178.2	175.4	170.1	168.7	168.7
75°	138.8	136.3	131.7	130.3	130.3
77.5°	101.4	99.3	95.8	94.0	94.0
80°	67.6	66.2	63.0	61.6	61.3
82.5°	39.1	38.4	35.6	34.2	34.9
85°	18.0	17.3	15.8	14.1	14.4
87.5°	4.6	4.2	3.2	2.5	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)