

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: P973426

Luminaire Tested: FLR2-14-30-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973426
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-L840-CP375
Description: 1*4 FLR-2.0 3000 LUMEN at 4000 CCT & 80CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

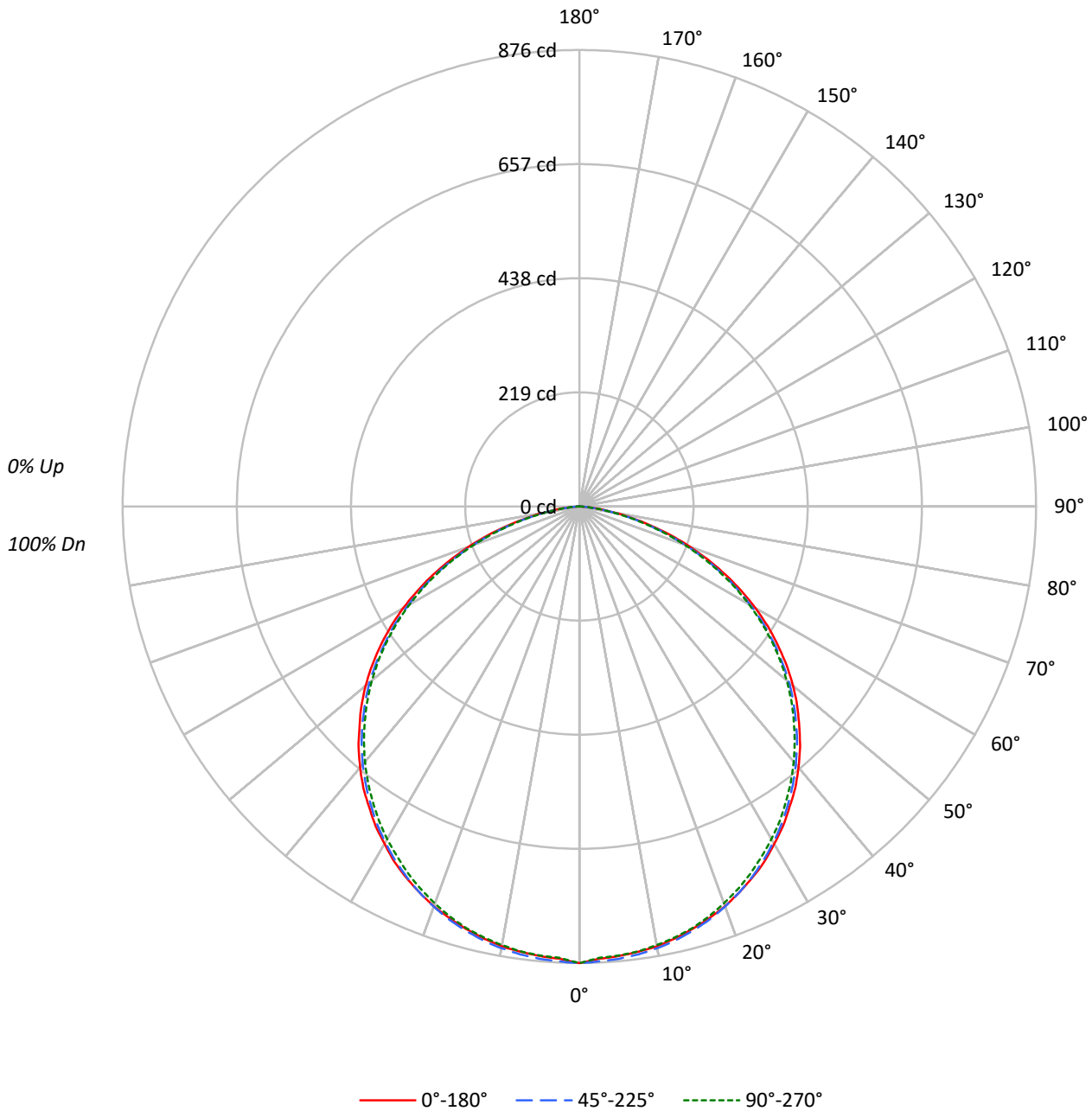
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2453.1 lumens
Efficiency: N/A
Efficacy: 102.6 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

TEST NUMBER: P973426
CATALOG NUMBER: FLR2-14-30-L840-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P973426
 CATALOG NUMBER: FLR2-14-30-L840-CP375

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°	2359	2359	2359
5°	2340	2354	2337
10°	2342	2352	2335
15°	2339	2348	2333
20°	2338	2340	2322
25°	2333	2329	2307
30°	2323	2313	2291
35°	2311	2293	2270
40°	2298	2270	2247
45°	2270	2238	2214
50°	2240	2199	2173
55°	2183	2133	2112
60°	2099	2040	2023
65°	1966	1908	1887
70°	1773	1701	1687
75°	1486	1411	1395
80°	1080	1006	978
85°	571	503	460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2270 cd/sqm



TEST NUMBER: P973426
 CATALOG NUMBER: FLR2-14-30-L840-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.4
10°-20°	238.4	9.7
20°-30°	362.2	14.8
30°-40°	438.1	17.9
40°-50°	455.4	18.6
50°-60°	407.7	16.6
60°-70°	297.4	12.1
70°-80°	146.4	6.0
80°-90°	24.5	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°	683.6	27.9
0°-40°	1121.8	45.7
0°-60°	1984.8	80.9
0°-90°	2453.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2453.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	866	876	871	880	865	82
15°	840	847	843	850	838	237
25°	786	790	784	788	777	362
35°	703	705	698	701	691	441
45°	596	596	588	589	582	460
55°	465	461	455	454	450	415
65°	309	305	300	298	296	305
75°	143	140	136	134	134	152
85°	18	18	16	14	15	27
90°	0	0	0	0	0	



TEST NUMBER: P973426
 CATALOG NUMBER: FLR2-14-30-L840-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.5	876.5	876.5	876.5	876.5
2.5°	868.8	878.6	873.9	882.6	867.0
5°	866.3	875.7	871.4	879.7	865.2
7.5°	862.0	871.7	867.0	875.0	861.2
10°	857.2	865.9	860.9	868.8	854.7
12.5°	848.9	857.6	852.9	860.1	847.1
15°	839.5	847.1	842.7	850.0	837.6
17.5°	828.6	835.8	831.1	837.6	825.3
20°	816.6	822.4	817.3	822.8	810.8
22.5°	801.7	807.2	801.7	805.4	794.8
25°	785.8	789.8	784.3	787.9	777.1
27.5°	768.7	770.9	765.5	768.4	757.1
30°	747.7	750.2	744.4	748.0	737.2
32.5°	727.4	728.8	722.3	725.2	715.4
35°	703.4	704.9	698.0	700.9	691.1
37.5°	680.6	680.2	672.9	674.8	666.4
40°	654.1	653.7	646.1	647.6	639.6
42.5°	626.9	625.4	618.2	618.9	611.6
45°	596.4	595.7	588.1	589.1	581.9
47.5°	567.0	564.8	557.2	557.6	551.4
50°	535.1	531.8	525.3	524.6	519.1
52.5°	501.0	497.4	490.1	489.4	485.4
55°	465.4	461.4	454.6	453.5	450.2
57.5°	428.8	423.7	418.3	416.1	413.6
60°	390.0	385.3	379.1	376.9	375.8
62.5°	349.7	345.0	340.3	338.1	336.7
65°	308.7	305.1	299.7	297.5	296.4
67.5°	267.0	263.7	258.7	256.1	255.8
70°	225.3	222.0	216.2	214.8	214.4
72.5°	183.6	180.7	175.2	173.8	173.8
75°	142.9	140.4	135.7	134.2	134.2
77.5°	104.5	102.3	98.7	96.9	96.9
80°	69.7	68.2	64.9	63.5	63.1
82.5°	40.3	39.5	36.6	35.2	35.9
85°	18.5	17.8	16.3	14.5	14.9
87.5°	4.7	4.4	3.3	2.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)