

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: P973186

Luminaire Tested: FLR2-14-42HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973186
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: FLR2-14-42HE-L935-CA125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Arylic (0.125" thickness)

Light Source:
Ballast/Driver: -

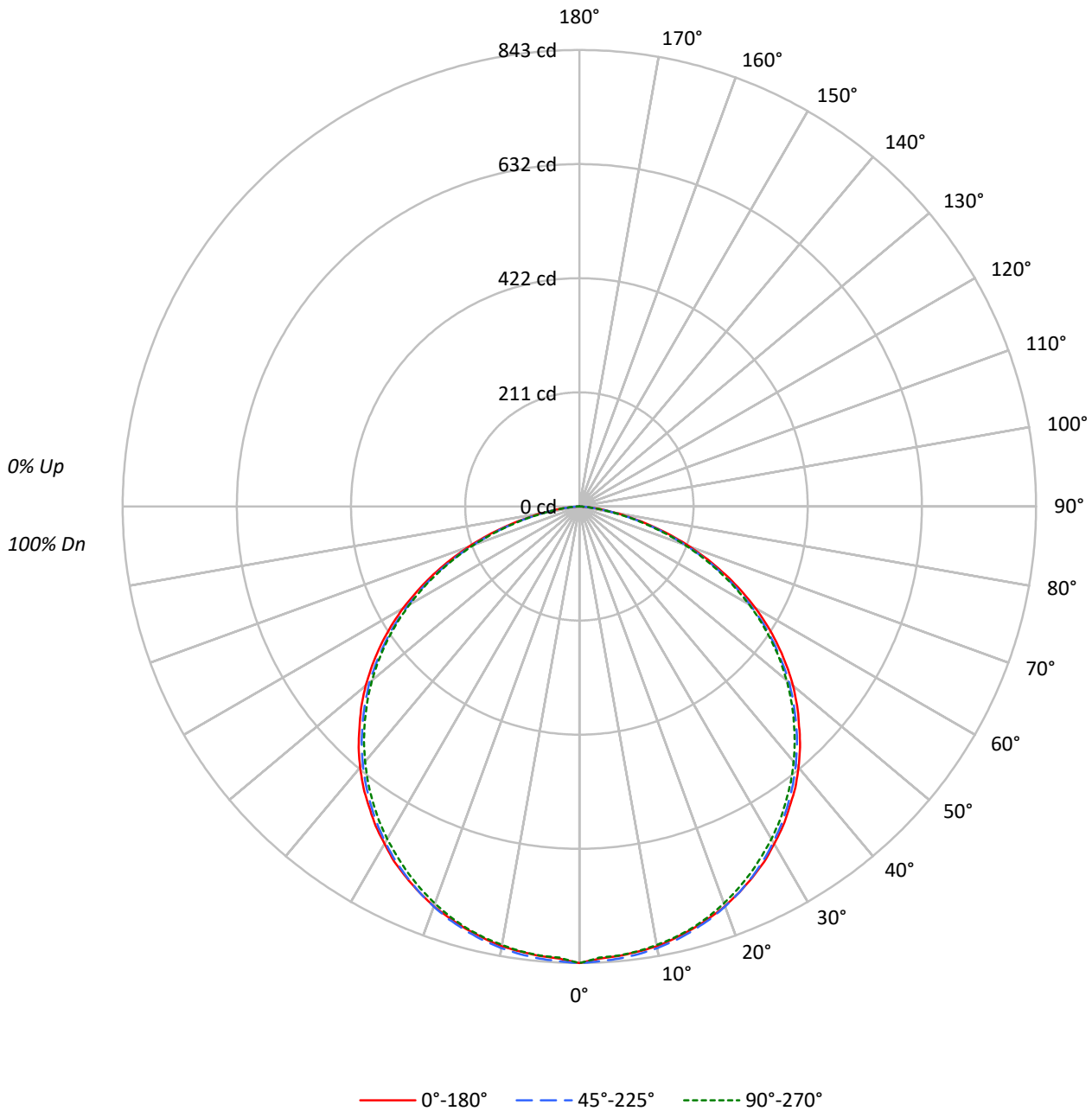
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.1 lumens
Efficiency: N/A
Efficacy: 74.0 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): 31.9
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

TEST NUMBER: P973186
CATALOG NUMBER: FLR2-14-42HE-L935-CA125

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						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2269	2269	2269
5°	2251	2265	2249
10°	2254	2263	2247
15°	2250	2259	2245
20°	2250	2252	2234
25°	2245	2241	2220
30°	2235	2225	2204
35°	2223	2206	2184
40°	2211	2184	2161
45°	2184	2153	2130
50°	2155	2116	2091
55°	2101	2052	2032
60°	2019	1963	1946
65°	1891	1836	1816
70°	1705	1637	1623
75°	1430	1357	1342
80°	1038	969	941
85°	550	485	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2184 cd/sqm



TEST NUMBER: P973186
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	3.4
10°-20°	229.4	9.7
20°-30°	348.5	14.8
30°-40°	421.5	17.9
40°-50°	438.1	18.6
50°-60°	392.2	16.6
60°-70°	286.1	12.1
70°-80°	140.9	6.0
80°-90°	23.6	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°	657.7	27.9
0°-40°	1079.3	45.7
0°-60°	1909.6	80.9
0°-90°	2360.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	834	843	838	846	832	79
15°	808	815	811	818	806	228
25°	756	760	755	758	748	349
35°	677	678	672	674	665	424
45°	574	573	566	567	560	443
55°	448	444	437	436	433	400
65°	297	294	288	286	285	293
75°	138	135	130	129	129	147
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°	843.3	843.3	843.3	843.3	843.3
2.5°	835.9	845.3	840.8	849.2	834.2
5°	833.5	842.6	838.4	846.4	832.4
7.5°	829.3	838.7	834.2	841.9	828.6
10°	824.8	833.1	828.2	835.9	822.3
12.5°	816.7	825.1	820.6	827.5	815.0
15°	807.7	815.0	810.8	817.8	805.9
17.5°	797.2	804.2	799.6	805.9	794.0
20°	785.7	791.2	786.4	791.6	780.1
22.5°	771.4	776.6	771.4	774.8	764.7
25°	756.0	759.8	754.6	758.1	747.6
27.5°	739.6	741.7	736.4	739.2	728.4
30°	719.3	721.8	716.2	719.7	709.2
32.5°	699.8	701.2	694.9	697.7	688.3
35°	676.8	678.2	671.5	674.3	664.9
37.5°	654.8	654.4	647.4	649.2	641.2
40°	629.3	628.9	621.6	623.0	615.3
42.5°	603.1	601.7	594.7	595.4	588.5
45°	573.8	573.1	565.8	566.8	559.8
47.5°	545.5	543.4	536.1	536.5	530.5
50°	514.8	511.7	505.4	504.7	499.5
52.5°	482.0	478.5	471.5	470.8	467.0
55°	447.8	444.0	437.3	436.3	433.1
57.5°	412.6	407.7	402.4	400.3	397.9
60°	375.2	370.7	364.7	362.6	361.6
62.5°	336.5	331.9	327.4	325.3	323.9
65°	297.0	293.5	288.3	286.2	285.2
67.5°	256.9	253.7	248.9	246.4	246.1
70°	216.7	213.6	208.0	206.6	206.3
72.5°	176.6	173.8	168.6	167.2	167.2
75°	137.5	135.1	130.5	129.1	129.1
77.5°	100.5	98.4	94.9	93.2	93.2
80°	67.0	65.6	62.5	61.1	60.7
82.5°	38.7	38.0	35.3	33.9	34.6
85°	17.8	17.1	15.7	14.0	14.3
87.5°	4.5	4.2	3.1	2.4	3.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)