

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: P973256

Luminaire Tested: FLR2-14-42HE-L940-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973256
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-L940-CA125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 4000CCT & 90 CRI with Clear Arylic (0.125" thickness)

Light Source:
Ballast/Driver: -

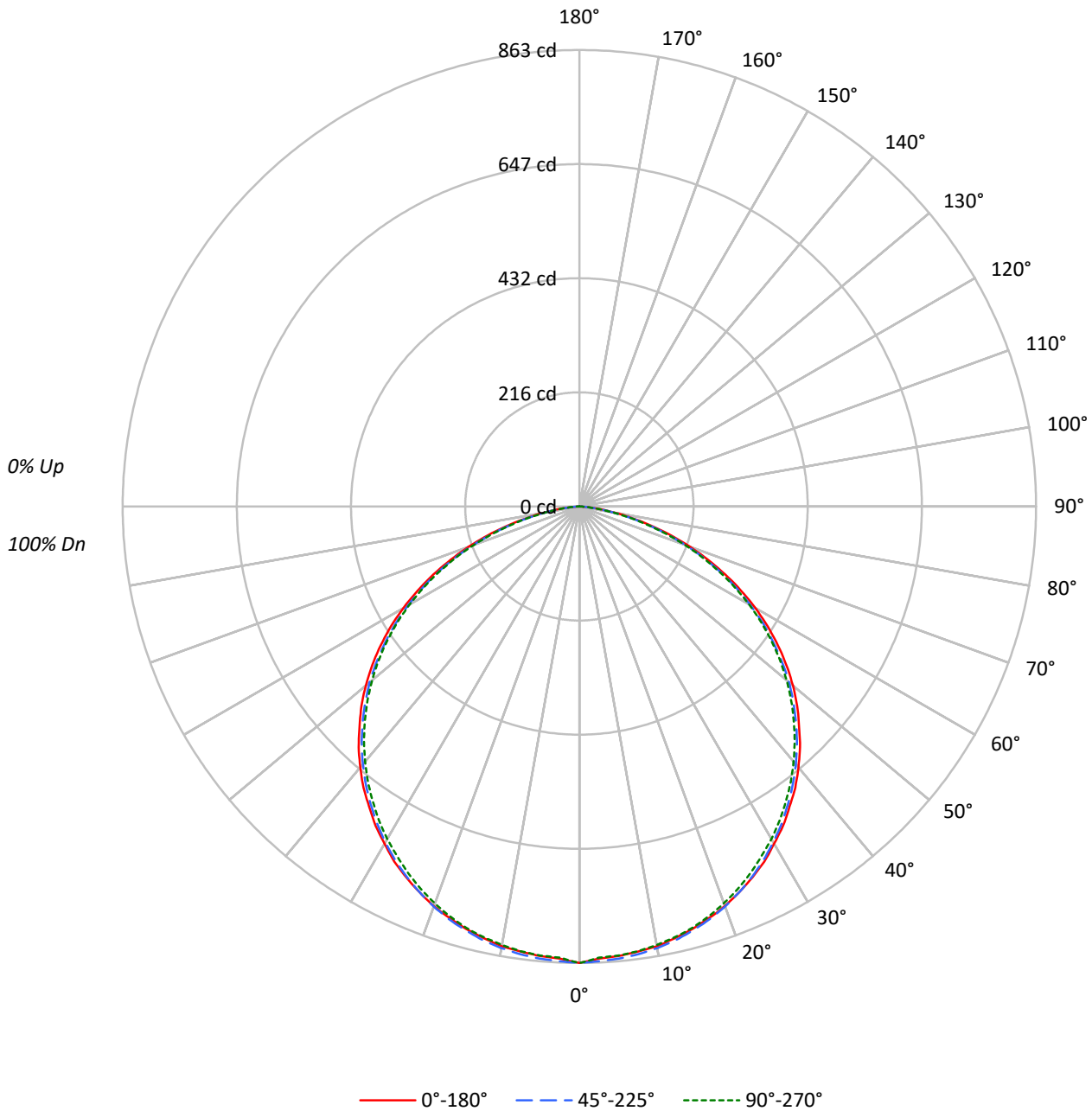
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.7 lumens
Efficiency: N/A
Efficacy: 75.7 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): 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

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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						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°	2323	2323	2323
5°	2304	2318	2301
10°	2307	2316	2300
15°	2303	2312	2298
20°	2303	2305	2286
25°	2298	2293	2272
30°	2288	2278	2256
35°	2276	2258	2235
40°	2263	2235	2212
45°	2235	2204	2181
50°	2206	2166	2140
55°	2150	2100	2080
60°	2067	2009	1992
65°	1936	1879	1859
70°	1745	1675	1661
75°	1464	1389	1375
80°	1063	990	964
85°	562	497	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2235 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.4
10°-20°	234.8	9.7
20°-30°	356.7	14.8
30°-40°	431.5	17.9
40°-50°	448.4	18.6
50°-60°	401.5	16.6
60°-70°	292.8	12.1
70°-80°	144.2	6.0
80°-90°	24.1	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°	673.2	27.9
0°-40°	1104.7	45.7
0°-60°	1954.6	80.9
0°-90°	2415.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	863	863	863	863	863	
5°	853	862	858	866	852	81
15°	827	834	830	837	825	233
25°	774	778	772	776	765	357
35°	693	694	687	690	680	434
45°	587	587	579	580	573	453
55°	458	454	448	447	443	409
65°	304	300	295	293	292	300
75°	141	138	134	132	132	150
85°	18	18	16	14	15	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	863.1	863.1	863.1	863.1	863.1
2.5°	855.6	865.2	860.6	869.2	853.8
5°	853.1	862.4	858.1	866.3	852.0
7.5°	848.8	858.4	853.8	861.7	848.1
10°	844.2	852.7	847.7	855.6	841.7
12.5°	835.9	844.5	839.9	847.0	834.2
15°	826.7	834.2	829.9	837.0	824.9
17.5°	815.9	823.1	818.4	824.9	812.7
20°	804.1	809.9	804.9	810.2	798.4
22.5°	789.5	794.9	789.5	793.1	782.7
25°	773.8	777.7	772.4	775.9	765.2
27.5°	757.0	759.1	753.8	756.6	745.6
30°	736.3	738.8	733.1	736.6	725.9
32.5°	716.3	717.7	711.3	714.1	704.5
35°	692.7	694.1	687.3	690.2	680.5
37.5°	670.2	669.8	662.7	664.5	656.3
40°	644.1	643.7	636.2	637.7	629.8
42.5°	617.3	615.9	608.7	609.5	602.3
45°	587.3	586.6	579.1	580.2	573.0
47.5°	558.4	556.2	548.7	549.1	543.0
50°	526.9	523.7	517.3	516.6	511.2
52.5°	493.3	489.8	482.6	481.9	478.0
55°	458.3	454.4	447.6	446.6	443.3
57.5°	422.3	417.3	411.9	409.8	407.3
60°	384.0	379.4	373.3	371.2	370.1
62.5°	344.4	339.7	335.1	332.9	331.5
65°	304.0	300.4	295.1	292.9	291.9
67.5°	262.9	259.7	254.7	252.2	251.9
70°	221.8	218.6	212.9	211.5	211.1
72.5°	180.8	177.9	172.5	171.1	171.1
75°	140.8	138.3	133.6	132.2	132.2
77.5°	102.9	100.7	97.2	95.4	95.4
80°	68.6	67.2	63.9	62.5	62.2
82.5°	39.7	38.9	36.1	34.7	35.4
85°	18.2	17.5	16.1	14.3	14.6
87.5°	4.6	4.3	3.2	2.5	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)