

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: P973250

Luminaire Tested: FLR2-14-30HE-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973250
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: FLR2-14-30HE-L940-CA080
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 90cri Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

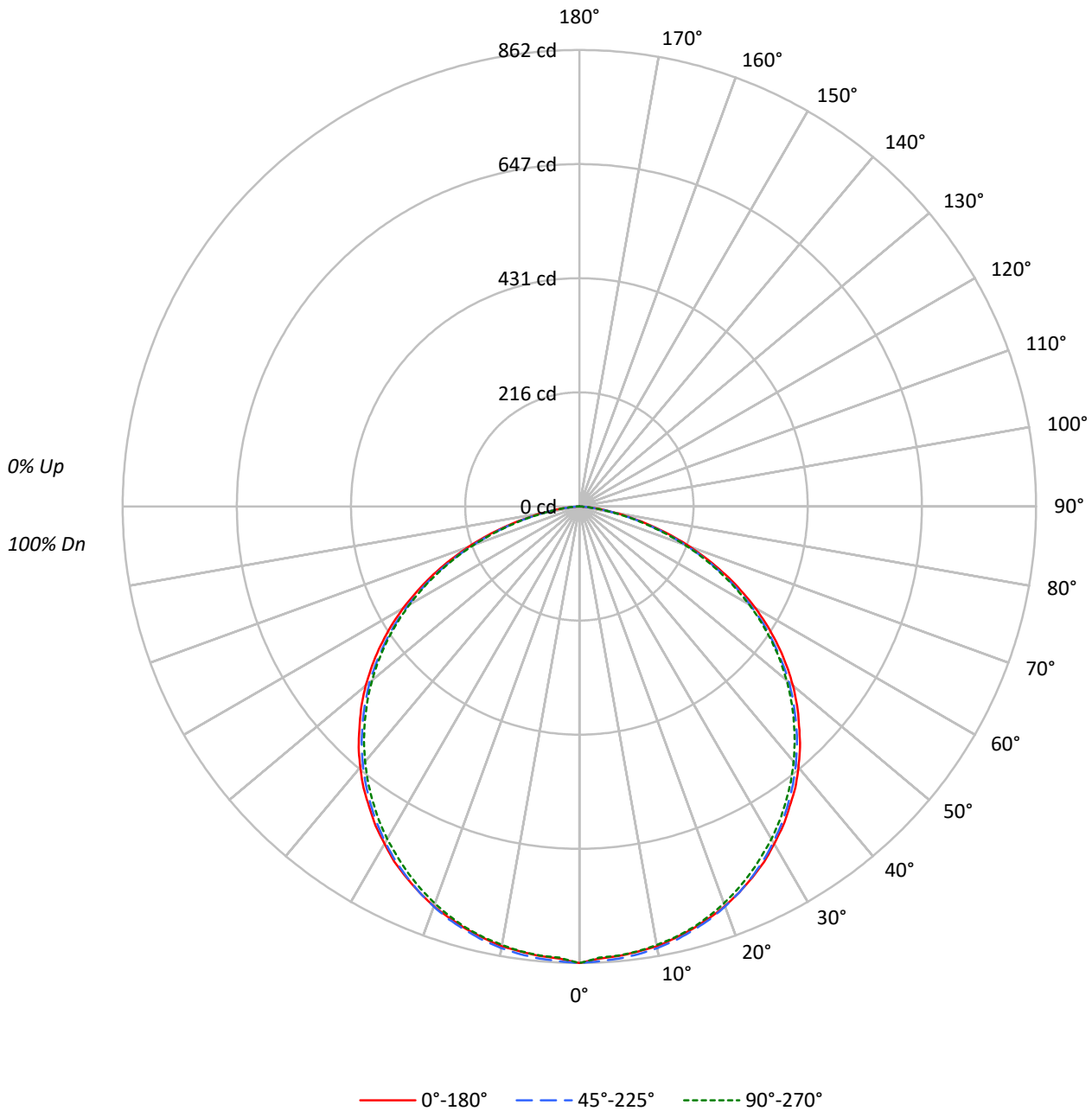
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2413.1 lumens
Efficiency: N/A
Efficacy: 107.7 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): 22.4
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°	2320	2320	2320
5°	2302	2316	2299
10°	2304	2314	2297
15°	2301	2310	2296
20°	2300	2302	2284
25°	2295	2291	2270
30°	2285	2275	2253
35°	2273	2256	2233
40°	2260	2233	2210
45°	2233	2202	2178
50°	2204	2163	2138
55°	2148	2098	2078
60°	2065	2007	1990
65°	1934	1877	1857
70°	1744	1674	1659
75°	1462	1388	1372
80°	1062	990	962
85°	562	497	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2233 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.4
10°-20°	234.5	9.7
20°-30°	356.3	14.8
30°-40°	431.0	17.9
40°-50°	447.9	18.6
50°-60°	401.0	16.6
60°-70°	292.5	12.1
70°-80°	144.0	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°	672.5	27.9
0°-40°	1103.5	45.7
0°-60°	1952.4	80.9
0°-90°	2413.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2413.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	852	861	857	865	851	81
15°	826	833	829	836	824	233
25°	773	777	772	775	764	356
35°	692	693	687	689	680	433
45°	587	586	578	580	572	453
55°	458	454	447	446	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°	862.2	862.2	862.2	862.2	862.2
2.5°	854.7	864.3	859.7	868.2	852.9
5°	852.2	861.4	857.2	865.4	851.1
7.5°	847.9	857.5	852.9	860.7	847.2
10°	843.3	851.8	846.8	854.7	840.8
12.5°	835.0	843.6	839.0	846.1	833.3
15°	825.8	833.3	829.0	836.1	824.0
17.5°	815.1	822.2	817.6	824.0	811.8
20°	803.3	809.0	804.0	809.3	797.6
22.5°	788.7	794.0	788.7	792.2	781.9
25°	772.9	776.9	771.5	775.1	764.4
27.5°	756.2	758.3	753.0	755.8	744.8
30°	735.5	738.0	732.3	735.8	725.1
32.5°	715.5	716.9	710.5	713.4	703.7
35°	691.9	693.4	686.6	689.4	679.8
37.5°	669.5	669.1	662.0	663.8	655.5
40°	643.4	643.1	635.6	637.0	629.1
42.5°	616.6	615.2	608.1	608.8	601.7
45°	586.7	586.0	578.5	579.5	572.4
47.5°	557.8	555.6	548.1	548.5	542.4
50°	526.4	523.2	516.7	516.0	510.7
52.5°	492.8	489.2	482.1	481.4	477.5
55°	457.8	453.9	447.1	446.1	442.9
57.5°	421.8	416.8	411.5	409.3	406.8
60°	383.6	379.0	372.9	370.8	369.7
62.5°	344.0	339.4	334.7	332.6	331.2
65°	303.7	300.1	294.8	292.6	291.6
67.5°	262.6	259.4	254.4	251.9	251.6
70°	221.6	218.4	212.7	211.3	210.9
72.5°	180.6	177.7	172.4	170.9	170.9
75°	140.6	138.1	133.5	132.0	132.0
77.5°	102.8	100.6	97.1	95.3	95.3
80°	68.5	67.1	63.9	62.4	62.1
82.5°	39.6	38.9	36.0	34.6	35.3
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)