

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: P973180

Luminaire Tested: FLR2-14-30HE-L935-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973180
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-L935-CA080
Description: 1*4 FLR-2.0 3500 Lumen High Efficacy at 3500CCT & 90 CRI Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

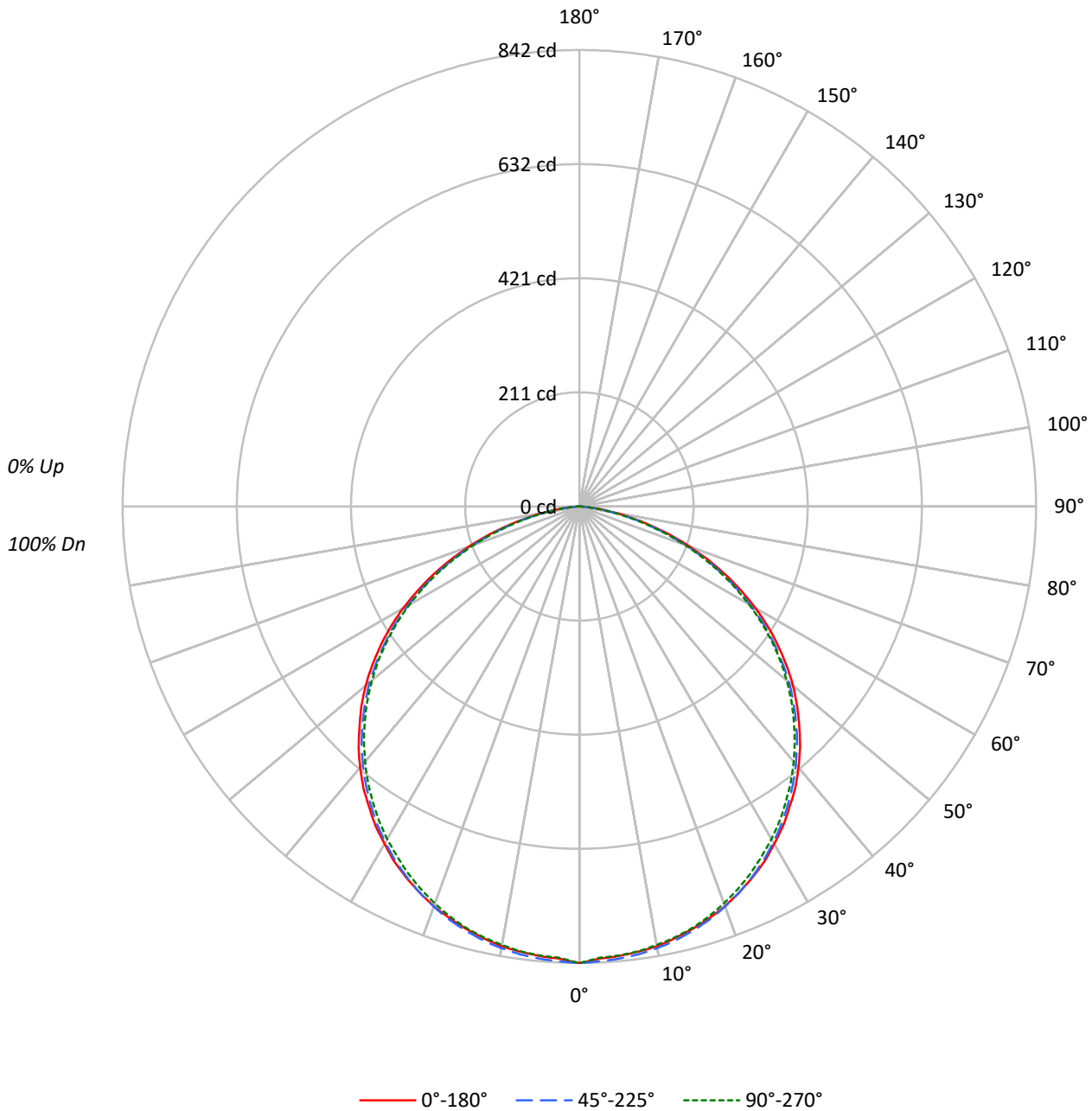
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2357.6 lumens
Efficiency: N/A
Efficacy: 105.2 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°	2267	2267	2267
5°	2249	2262	2246
10°	2251	2261	2244
15°	2248	2256	2243
20°	2247	2249	2231
25°	2242	2238	2217
30°	2233	2223	2202
35°	2221	2204	2182
40°	2208	2181	2159
45°	2181	2151	2128
50°	2153	2113	2089
55°	2099	2050	2030
60°	2017	1961	1944
65°	1889	1834	1813
70°	1703	1635	1622
75°	1429	1356	1341
80°	1037	967	941
85°	550	485	442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	3.4
10°-20°	229.1	9.7
20°-30°	348.1	14.8
30°-40°	421.1	17.9
40°-50°	437.6	18.6
50°-60°	391.8	16.6
60°-70°	285.8	12.1
70°-80°	140.7	6.0
80°-90°	23.5	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°	657.0	27.9
0°-40°	1078.1	45.7
0°-60°	1907.5	80.9
0°-90°	2357.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2357.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	842	842	842	842	842	
5°	833	842	838	846	832	79
15°	807	814	810	817	805	228
25°	755	759	754	757	747	348
35°	676	677	671	674	664	423
45°	573	572	565	566	559	443
55°	447	444	437	436	433	399
65°	297	293	288	286	285	293
75°	137	135	130	129	129	146
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°	842.3	842.3	842.3	842.3	842.3
2.5°	835.0	844.4	839.9	848.3	833.3
5°	832.6	841.6	837.5	845.5	831.5
7.5°	828.4	837.8	833.3	840.9	827.7
10°	823.9	832.2	827.4	835.0	821.4
12.5°	815.8	824.2	819.7	826.7	814.1
15°	806.8	814.1	809.9	816.9	805.0
17.5°	796.3	803.3	798.8	805.0	793.2
20°	784.8	790.4	785.5	790.7	779.2
22.5°	770.5	775.8	770.5	774.0	763.9
25°	755.2	759.0	753.8	757.3	746.8
27.5°	738.8	740.9	735.7	738.4	727.6
30°	718.6	721.0	715.4	718.9	708.5
32.5°	699.0	700.4	694.2	697.0	687.5
35°	676.0	677.4	670.8	673.6	664.2
37.5°	654.1	653.7	646.7	648.5	640.5
40°	628.6	628.3	620.9	622.3	614.7
42.5°	602.5	601.1	594.1	594.8	587.8
45°	573.2	572.5	565.2	566.2	559.2
47.5°	544.9	542.9	535.5	535.9	530.0
50°	514.3	511.1	504.8	504.2	498.9
52.5°	481.5	478.0	471.0	470.3	466.5
55°	447.3	443.5	436.9	435.8	432.7
57.5°	412.1	407.2	402.0	399.9	397.5
60°	374.8	370.3	364.3	362.2	361.2
62.5°	336.1	331.6	327.0	324.9	323.5
65°	296.7	293.2	288.0	285.9	284.8
67.5°	256.6	253.5	248.6	246.1	245.8
70°	216.5	213.4	207.8	206.4	206.1
72.5°	176.4	173.6	168.4	167.0	167.0
75°	137.4	134.9	130.4	129.0	129.0
77.5°	100.4	98.3	94.8	93.1	93.1
80°	66.9	65.5	62.4	61.0	60.7
82.5°	38.7	38.0	35.2	33.8	34.5
85°	17.8	17.1	15.7	13.9	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)