

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1357222

Luminaire Tested: 4ASL4-30VHE-3-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 4ASL4-30VHE-3-92765-UNV_2700K
Description: 4FT 3000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

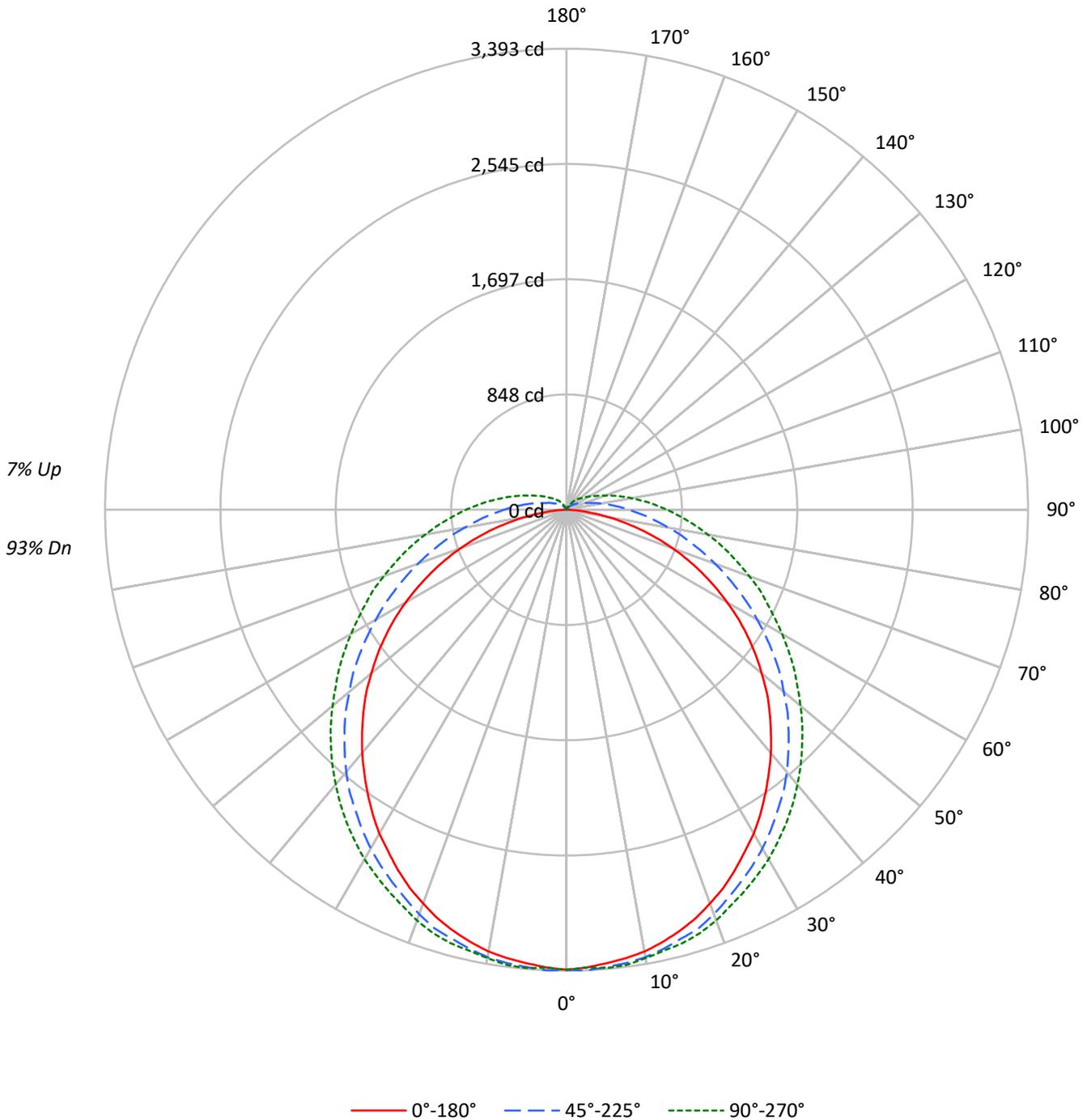
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11512.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 116.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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	50	30	10	0
RCR																					
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	39	34	34	34	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	30	30	30	28
8	58	44	35	29	56	43	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27477	27477	27477
5°	27233	26960	26848
10°	27080	26436	26169
15°	26780	25786	25594
20°	26376	25162	24944
25°	25904	24380	24206
30°	25407	23701	23581
35°	24790	22933	22887
40°	24225	22229	22155
45°	23617	21378	21420
50°	22924	20465	20657
55°	22176	19592	19970
60°	21203	18573	19273
65°	19965	17593	18695
70°	18386	16622	18242
75°	16085	15734	17932
80°	12603	15065	17800
85°	7568	14906	18063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23617 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.1	2.8
10°-20°	921.8	8.0
20°-30°	1393.7	12.1
30°-40°	1687.6	14.7
40°-50°	1772.5	15.4
50°-60°	1653.7	14.4
60°-70°	1366.7	11.9
70°-80°	984.0	8.5
80°-90°	611.5	5.3
90°-100°	358.3	3.1
100°-110°	205.0	1.8
110°-120°	115.7	1.0
120°-130°	66.6	0.6
130°-140°	35.9	0.3
140°-150°	15.1	0.1
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2636.7	22.9
0°-40°	4324.3	37.6
0°-60°	7750.5	67.3
0°-90°	10712.6	93.1
90°-120°	679.0	5.9
90°-150°	796.5	6.9
90°-180°	799.0	6.9
0°-180°	11512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3386	3386	3386	3386	3386	
5°	3351	3379	3379	3379	3386	318
15°	3210	3252	3266	3287	3301	905
25°	2928	2978	3027	3069	3097	1349
35°	2548	2619	2703	2780	2816	1595
45°	2112	2189	2309	2407	2450	1629
55°	1626	1718	1858	1992	2041	1453
65°	1098	1204	1387	1563	1626	1087
75°	563	704	950	1154	1239	596
85°	106	317	598	810	887	129
90°	0	190	458	655	739	5
95°	0	120	345	528	605	0
105°	0	42	190	331	387	0
115°	0	21	113	204	239	0
125°	0	14	70	134	155	0
135°	0	0	42	84	106	0
145°	0	0	21	49	56	0
155°	0	0	0	14	21	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3385.8	3385.8	3385.8	3385.8	3385.8
2.5°	3371.8	3392.9	3392.9	3371.8	3371.8
5°	3350.6	3378.8	3378.8	3378.8	3385.8
7.5°	3329.5	3364.7	3364.7	3364.7	3378.8
10°	3301.4	3336.6	3343.6	3343.6	3350.6
12.5°	3259.1	3301.4	3308.4	3315.4	3322.5
15°	3209.9	3252.1	3266.2	3287.3	3301.4
17.5°	3153.5	3202.8	3231.0	3252.1	3266.2
20°	3083.2	3132.4	3167.6	3195.8	3216.9
22.5°	3012.8	3055.0	3097.2	3132.4	3153.5
25°	2928.3	2977.6	3026.8	3069.1	3097.2
27.5°	2836.8	2893.1	2956.4	3005.7	3033.9
30°	2752.3	2808.6	2879.0	2942.4	2970.5
32.5°	2653.8	2717.1	2794.5	2857.9	2893.1
35°	2548.2	2618.6	2703.0	2780.5	2815.7
37.5°	2442.6	2513.0	2618.6	2696.0	2731.2
40°	2337.0	2407.4	2520.0	2604.5	2639.7
42.5°	2224.4	2294.8	2414.4	2505.9	2548.2
45°	2111.7	2189.2	2308.8	2407.4	2449.6
47.5°	1999.1	2076.6	2203.3	2308.8	2351.1
50°	1872.4	1956.9	2083.6	2203.3	2245.5
52.5°	1752.7	1837.2	1978.0	2097.7	2139.9
55°	1626.0	1717.6	1858.3	1992.1	2041.4
57.5°	1499.3	1590.8	1738.7	1879.5	1935.8
60°	1365.6	1464.1	1619.0	1766.8	1830.2
62.5°	1231.9	1337.4	1506.4	1661.2	1724.6
65°	1098.1	1203.7	1386.7	1562.7	1626.0
67.5°	964.4	1077.0	1274.1	1457.1	1534.5
70°	830.6	950.3	1161.5	1351.5	1428.9
72.5°	696.9	823.6	1055.9	1253.0	1330.4
75°	563.1	703.9	950.3	1154.4	1238.9
77.5°	429.4	591.3	858.8	1062.9	1147.4
80°	309.7	492.7	760.2	971.4	1055.9
82.5°	197.1	394.2	675.8	886.9	971.4
85°	105.6	316.8	598.3	809.5	886.9
87.5°	35.2	246.4	520.9	732.1	809.5
90°	0.0	190.1	457.5	654.6	739.1
92.5°	0.0	147.8	401.2	591.3	668.7
95°	0.0	119.7	344.9	527.9	605.4
97.5°	0.0	98.5	302.7	471.6	542.0
100°	0.0	77.4	260.4	422.3	485.7
102.5°	0.0	63.4	225.3	373.1	436.4
105°	0.0	42.2	190.1	330.8	387.2
107.5°	0.0	35.2	161.9	295.6	344.9
110°	0.0	28.2	147.8	253.4	302.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	21.1	133.7	225.3	274.5
115°	0.0	21.1	112.6	204.1	239.3
117.5°	0.0	21.1	98.5	183.0	218.2
120°	0.0	14.1	91.5	161.9	197.1
122.5°	0.0	14.1	77.4	147.8	176.0
125°	0.0	14.1	70.4	133.7	154.9
127.5°	0.0	7.0	63.4	119.7	140.8
130°	0.0	7.0	56.3	105.6	126.7
132.5°	0.0	7.0	49.3	98.5	119.7
135°	0.0	0.0	42.2	84.5	105.6
137.5°	0.0	0.0	35.2	77.4	91.5
140°	0.0	0.0	28.2	63.4	84.5
142.5°	0.0	0.0	21.1	56.3	70.4
145°	0.0	0.0	21.1	49.3	56.3
147.5°	0.0	0.0	14.1	35.2	49.3
150°	0.0	0.0	7.0	28.2	35.2
152.5°	0.0	0.0	0.0	21.1	28.2
155°	0.0	0.0	0.0	14.1	21.1
157.5°	0.0	0.0	0.0	0.0	7.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	20.84	22.38	21.31	22.84	23.32	22.87	24.41	23.34	24.87	25.35
	3H	22.34	23.75	22.82	24.21	24.73	25.33	26.74	25.82	27.20	27.73
	4H	22.82	24.15	23.32	24.64	25.17	26.53	27.86	27.03	28.34	28.88
	6H	23.10	24.34	23.61	24.83	25.39	27.78	29.02	28.30	29.52	30.07
	8H	23.15	24.34	23.68	24.86	25.42	28.43	29.62	28.96	30.14	30.70
	12H	23.16	24.30	23.70	24.82	25.41	29.14	30.28	29.67	30.79	31.38
4H	2H	21.72	23.05	22.22	23.53	24.07	23.31	24.64	23.81	25.12	25.66
	3H	23.46	24.59	23.97	25.12	25.68	25.99	27.13	26.51	27.65	28.21
	4H	24.06	25.10	24.60	25.63	26.23	27.36	28.40	27.90	28.94	29.53
	6H	24.46	25.38	25.01	25.94	26.54	28.81	29.72	29.36	30.29	30.89
	8H	24.55	25.42	25.11	25.98	26.60	29.56	30.42	30.12	30.98	31.60
	12H	24.60	25.38	25.18	25.97	26.60	30.39	31.18	30.98	31.77	32.39
8H	4H	24.74	25.60	25.30	26.17	26.79	27.58	28.44	28.14	29.00	29.62
	6H	25.32	26.05	25.91	26.66	27.28	29.19	29.92	29.79	30.53	31.15
	8H	25.50	26.16	26.11	26.78	27.41	30.09	30.75	30.69	31.36	32.00
	12H	25.62	26.21	26.22	26.81	27.51	31.11	31.70	31.71	32.30	33.00
12H	4H	24.94	25.72	25.52	26.31	26.93	27.59	28.37	28.17	28.96	29.59
	6H	25.61	26.28	26.22	26.89	27.53	29.23	29.89	29.83	30.51	31.14
	8H	25.89	26.48	26.50	27.09	27.79	30.19	30.78	30.80	31.39	32.09