

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: P1357147

Luminaire Tested: 4ASL4-15HE-2-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)
Test Lab: INNOVATION CENTER
Issue Date: 2/17/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: 4ASL4-15HE-2-92765-UNV_2700K
Description: 4FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

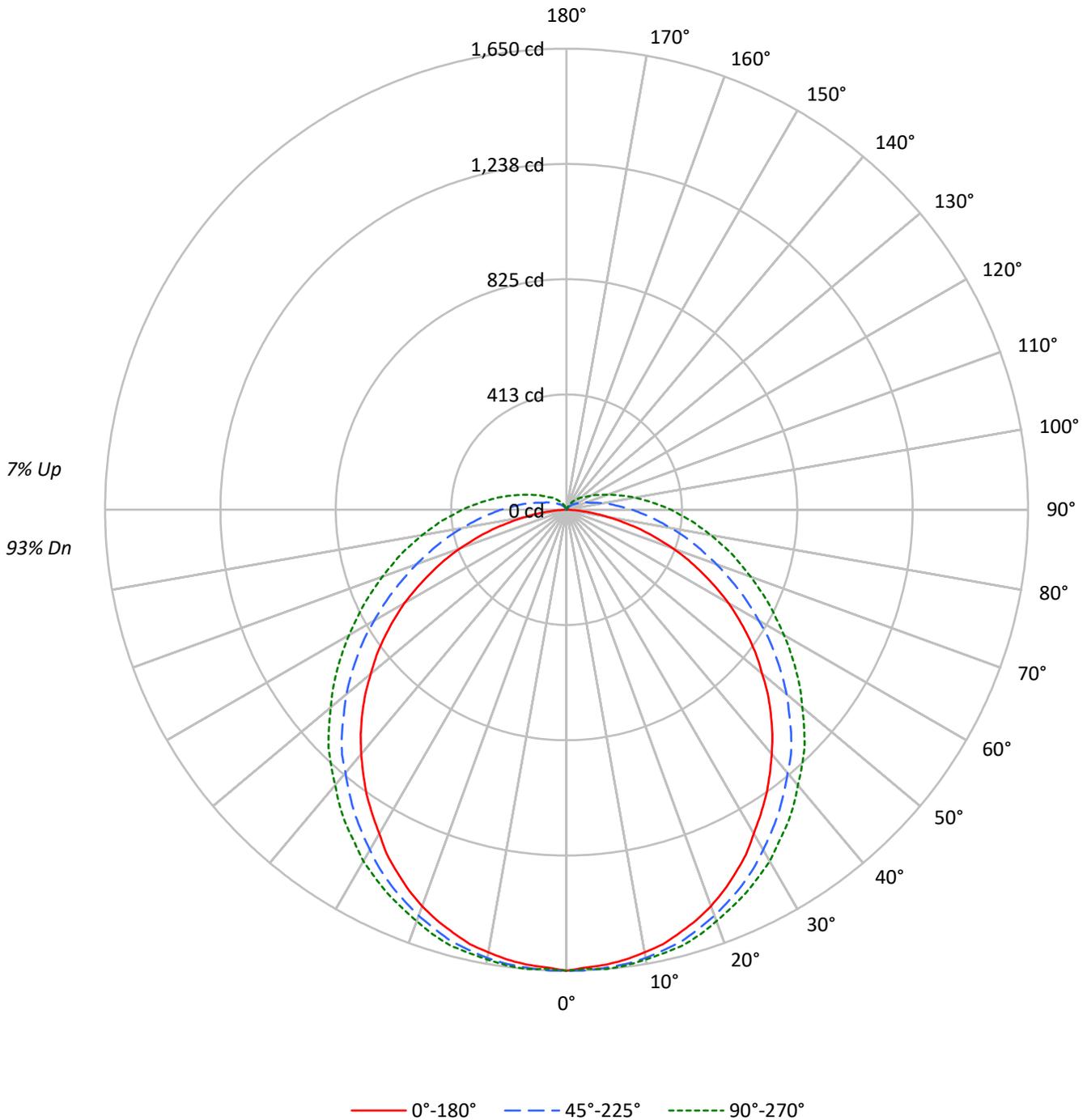
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5664.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 3.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 54.1
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

TEST NUMBER: P1357147
CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

Luminous Intensity Polar Plot





TEST NUMBER: P1357147

CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	95	95	95	95	95	95	93
1	105	100	95	90	102	97	92	88	91	87	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	63	63	63	60
3	86	75	66	59	83	73	65	58	69	62	56	65	59	55	62	57	53	53	53	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	45	45	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	39	39	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	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	34	29	41	33	28	39	32	28	37	31	27	27	27	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	29	24	24	24	24	22
10	50	37	29	24	49	36	28	23	35	28	23	33	27	22	32	26	22	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13389	13389	13389
5°	13283	13123	13083
10°	13193	12881	12764
15°	13073	12616	12509
20°	12916	12282	12150
25°	12668	11952	11840
30°	12357	11575	11532
35°	12114	11225	11176
40°	11832	10846	10799
45°	11547	10520	10525
50°	11179	10090	10118
55°	10826	9627	9795
60°	10392	9106	9452
65°	9716	8623	9186
70°	8958	8167	8942
75°	7855	7817	8861
80°	6124	7505	8833
85°	3720	7497	9087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11547 cd/sqm



TEST NUMBER: P1357147
 CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	2.8
10°-20°	449.8	7.9
20°-30°	681.5	12.0
30°-40°	824.3	14.6
40°-50°	869.0	15.3
50°-60°	811.0	14.3
60°-70°	669.6	11.8
70°-80°	485.7	8.6
80°-90°	306.9	5.4
90°-100°	183.2	3.2
100°-110°	105.0	1.9
110°-120°	59.6	1.1
120°-130°	34.0	0.6
130°-140°	18.4	0.3
140°-150°	8.1	0.1
150°-160°	1.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1287.7	22.7
0°-40°	2112.0	37.3
0°-60°	3792.0	66.9
0°-90°	5254.2	92.8
90°-120°	347.8	6.1
90°-150°	408.4	7.2
90°-180°	410.0	7.2
0°-180°	5664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1634	1650	1645	1645	1650	155
15°	1567	1588	1598	1603	1614	442
25°	1432	1453	1484	1505	1515	660
35°	1245	1276	1323	1359	1375	778
45°	1032	1074	1136	1183	1204	796
55°	794	840	913	975	1001	709
65°	534	592	680	763	799	531
75°	275	348	472	571	612	289
85°	52	161	301	405	446	63
90°	0	99	234	332	374	2
95°	0	62	176	270	306	0
105°	0	21	99	171	197	0
115°	0	10	57	104	124	0
125°	0	5	36	67	78	0
135°	0	0	21	42	52	0
145°	0	0	10	26	31	0
155°	0	0	0	5	10	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357147

CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.9	1649.9	1649.9	1649.9	1649.9
2.5°	1639.5	1655.1	1649.9	1644.7	1644.7
5°	1634.3	1649.9	1644.7	1644.7	1649.9
7.5°	1623.9	1639.5	1639.5	1639.5	1644.7
10°	1608.4	1629.1	1629.1	1629.1	1634.3
12.5°	1592.8	1608.4	1613.5	1618.7	1623.9
15°	1566.9	1587.6	1598.0	1603.2	1613.5
17.5°	1540.9	1556.5	1572.0	1587.6	1592.8
20°	1509.8	1530.5	1546.1	1561.7	1566.9
22.5°	1473.5	1494.2	1515.0	1530.5	1540.9
25°	1432.0	1452.7	1483.8	1504.6	1515.0
27.5°	1390.5	1411.2	1447.5	1473.5	1483.8
30°	1338.6	1369.7	1406.0	1437.1	1452.7
32.5°	1291.9	1323.0	1364.5	1400.8	1411.2
35°	1245.2	1276.3	1323.0	1359.3	1374.9
37.5°	1193.3	1229.6	1276.3	1317.8	1333.4
40°	1141.4	1177.7	1229.6	1276.3	1286.7
42.5°	1089.5	1125.9	1188.1	1229.6	1245.2
45°	1032.5	1074.0	1136.2	1182.9	1203.7
47.5°	975.4	1016.9	1079.2	1131.0	1151.8
50°	913.1	959.8	1027.3	1079.2	1099.9
52.5°	856.1	902.8	970.2	1027.3	1053.2
55°	793.8	840.5	913.1	975.4	1001.3
57.5°	731.5	778.2	856.1	923.5	949.5
60°	669.3	716.0	793.8	871.6	897.6
62.5°	601.8	653.7	736.7	814.6	845.7
65°	534.4	591.5	679.7	762.7	799.0
67.5°	472.1	529.2	622.6	716.0	747.1
70°	404.7	466.9	570.7	664.1	700.4
72.5°	337.2	404.7	518.8	617.4	653.7
75°	275.0	347.6	472.1	570.7	612.2
77.5°	207.5	295.7	425.4	529.2	565.5
80°	150.5	243.8	378.7	487.7	524.0
82.5°	98.6	197.2	337.2	446.2	482.5
85°	51.9	160.8	300.9	404.7	446.2
87.5°	15.6	124.5	264.6	368.4	404.7
90°	0.0	98.6	233.5	332.0	373.6
92.5°	0.0	77.8	202.3	300.9	337.2
95°	0.0	62.3	176.4	269.8	306.1
97.5°	0.0	51.9	155.6	243.8	275.0
100°	0.0	41.5	134.9	217.9	249.0
102.5°	0.0	31.1	114.1	192.0	223.1
105°	0.0	20.8	98.6	171.2	197.2
107.5°	0.0	15.6	83.0	150.5	176.4
110°	0.0	15.6	77.8	129.7	155.6



TEST NUMBER: P1357147
 CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	10.4	67.4	119.3	140.1
115°	0.0	10.4	57.1	103.8	124.5
117.5°	0.0	10.4	51.9	93.4	114.1
120°	0.0	10.4	46.7	83.0	98.6
122.5°	0.0	5.2	41.5	72.6	88.2
125°	0.0	5.2	36.3	67.4	77.8
127.5°	0.0	5.2	31.1	62.3	72.6
130°	0.0	5.2	31.1	57.1	67.4
132.5°	0.0	0.0	25.9	51.9	62.3
135°	0.0	0.0	20.8	41.5	51.9
137.5°	0.0	0.0	20.8	36.3	46.7
140°	0.0	0.0	15.6	36.3	41.5
142.5°	0.0	0.0	10.4	31.1	36.3
145°	0.0	0.0	10.4	25.9	31.1
147.5°	0.0	0.0	5.2	20.8	25.9
150°	0.0	0.0	5.2	15.6	20.8
152.5°	0.0	0.0	0.0	10.4	15.6
155°	0.0	0.0	0.0	5.2	10.4
157.5°	0.0	0.0	0.0	0.0	5.2
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



TEST NUMBER: P1357147
 CATALOG NUMBER: 4ASL4-15HE-2-92765-UNV_2700K

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	18.33	19.86	18.80	20.32	20.81	20.39	21.92	20.86	22.38	22.87
	3H	19.83	21.23	20.31	21.70	22.23	22.84	24.24	23.32	24.71	25.24
	4H	20.31	21.64	20.81	22.12	22.67	24.05	25.37	24.55	25.86	26.41
	6H	20.58	21.82	21.10	22.32	22.88	25.32	26.55	25.84	27.05	27.62
	8H	20.64	21.82	21.17	22.35	22.91	25.98	27.16	26.51	27.69	28.25
	12H	20.65	21.79	21.19	22.31	22.90	26.71	27.84	27.24	28.36	28.96
4H	2H	19.21	20.53	19.71	21.02	21.56	20.82	22.14	21.32	22.63	23.18
	3H	20.95	22.08	21.47	22.61	23.18	23.50	24.63	24.02	25.16	25.73
	4H	21.56	22.59	22.10	23.13	23.73	24.88	25.92	25.42	26.46	27.06
	6H	21.96	22.87	22.52	23.44	24.05	26.35	27.27	26.91	27.83	28.45
	8H	22.06	22.92	22.62	23.48	24.11	27.12	27.98	27.68	28.55	29.17
	12H	22.10	22.89	22.69	23.48	24.11	27.97	28.75	28.56	29.35	29.98
8H	4H	22.25	23.11	22.82	23.68	24.31	25.10	25.96	25.67	26.53	27.16
	6H	22.84	23.57	23.43	24.18	24.81	26.75	27.48	27.34	28.09	28.72
	8H	23.03	23.69	23.63	24.31	24.95	27.66	28.32	28.27	28.94	29.58
	12H	23.15	23.74	23.76	24.34	25.05	28.70	29.29	29.31	29.89	30.60
12H	4H	22.45	23.24	23.04	23.83	24.46	25.11	25.89	25.70	26.49	27.12
	6H	23.14	23.80	23.75	24.42	25.07	26.78	27.45	27.39	28.06	28.71
	8H	23.43	24.02	24.04	24.63	25.34	27.77	28.36	28.38	28.96	29.67