

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: P1357152

Luminaire Tested: 4ASL4-15HE-2-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357152
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_6500K
Description: 4FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

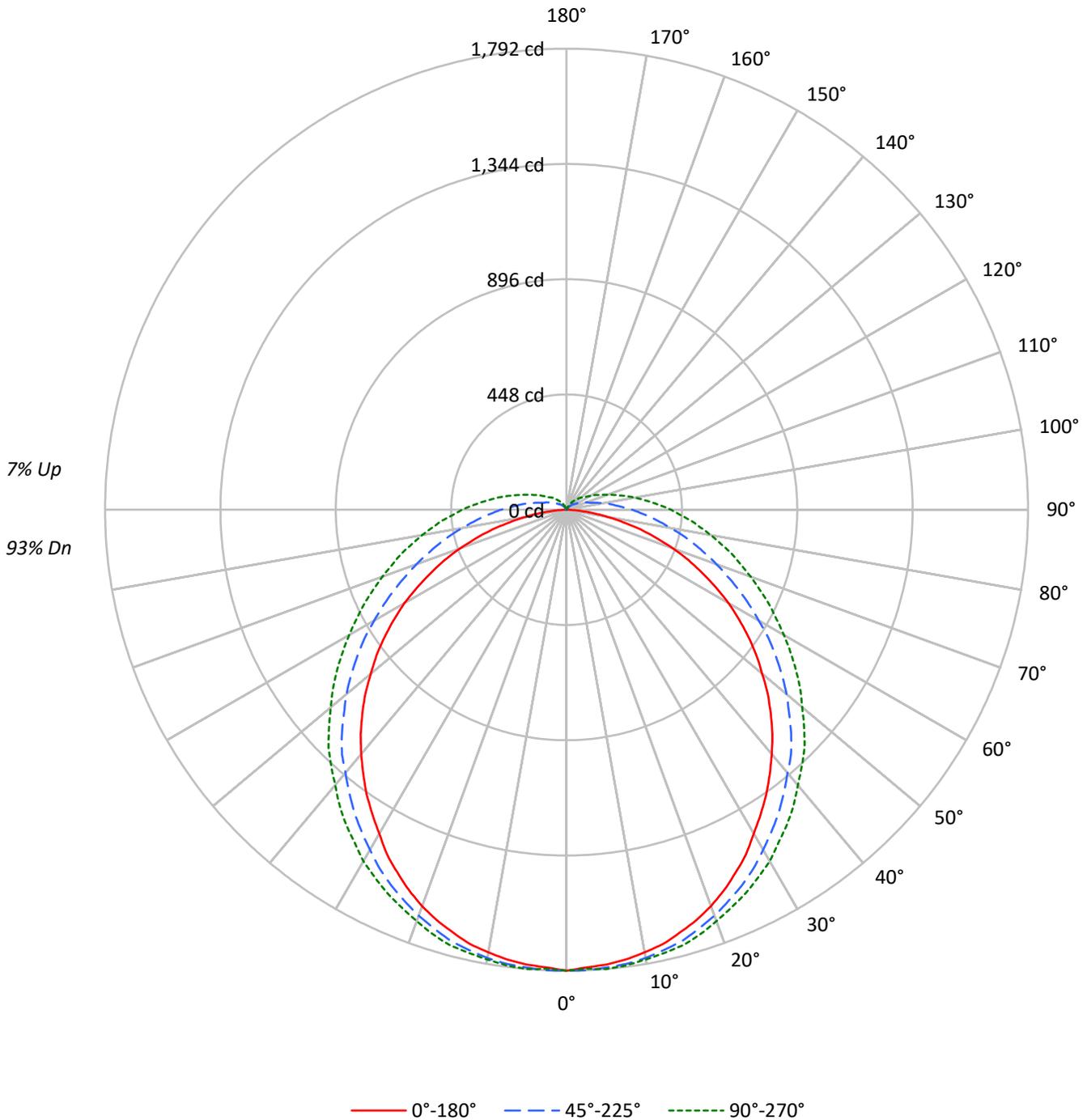
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6151.0 lumens
Efficiency: N/A
Efficacy: 113.7 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

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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	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°	14540	14540	14540
5°	14425	14251	14207
10°	14327	13988	13861
15°	14197	13701	13585
20°	14026	13337	13194
25°	13757	12979	12858
30°	13419	12570	12524
35°	13155	12190	12136
40°	12850	11779	11727
45°	12539	11425	11430
50°	12140	10957	10988
55°	11758	10454	10638
60°	11285	9890	10264
65°	10551	9364	9976
70°	9729	8870	9710
75°	8529	8489	9624
80°	6649	8151	9594
85°	4035	8142	9869

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12539 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	2.8
10°-20°	488.4	7.9
20°-30°	740.1	12.0
30°-40°	895.1	14.6
40°-50°	943.7	15.3
50°-60°	880.8	14.3
60°-70°	727.2	11.8
70°-80°	527.5	8.6
80°-90°	333.3	5.4
90°-100°	198.9	3.2
100°-110°	114.0	1.9
110°-120°	64.8	1.1
120°-130°	36.9	0.6
130°-140°	20.0	0.3
140°-150°	8.8	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1398.4	22.7
0°-40°	2293.6	37.3
0°-60°	4118.0	66.9
0°-90°	5705.9	92.8
90°-120°	377.7	6.1
90°-150°	443.4	7.2
90°-180°	445.0	7.2
0°-180°	6151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1775	1792	1786	1786	1792	169
15°	1702	1724	1735	1741	1752	480
25°	1555	1578	1611	1634	1645	716
35°	1352	1386	1437	1476	1493	845
45°	1121	1166	1234	1285	1307	865
55°	862	913	992	1059	1087	770
65°	580	642	738	828	868	576
75°	299	378	513	620	665	314
85°	56	175	327	440	485	69
90°	0	107	254	361	406	2
95°	0	68	192	293	332	0
105°	0	22	107	186	214	0
115°	0	11	62	113	135	0
125°	0	6	39	73	84	0
135°	0	0	22	45	56	0
145°	0	0	11	28	34	0
155°	0	0	0	6	11	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°	1791.7	1791.7	1791.7	1791.7	1791.7
2.5°	1780.5	1797.4	1791.7	1786.1	1786.1
5°	1774.8	1791.7	1786.1	1786.1	1791.7
7.5°	1763.6	1780.5	1780.5	1780.5	1786.1
10°	1746.6	1769.2	1769.2	1769.2	1774.8
12.5°	1729.7	1746.6	1752.3	1757.9	1763.6
15°	1701.6	1724.1	1735.4	1741.0	1752.3
17.5°	1673.4	1690.3	1707.2	1724.1	1729.7
20°	1639.6	1662.1	1679.0	1695.9	1701.6
22.5°	1600.2	1622.7	1645.2	1662.1	1673.4
25°	1555.1	1577.6	1611.4	1634.0	1645.2
27.5°	1510.0	1532.5	1572.0	1600.2	1611.4
30°	1453.7	1487.5	1526.9	1560.7	1577.6
32.5°	1403.0	1436.8	1481.8	1521.3	1532.5
35°	1352.2	1386.0	1436.8	1476.2	1493.1
37.5°	1295.9	1335.3	1386.0	1431.1	1448.0
40°	1239.6	1279.0	1335.3	1386.0	1397.3
42.5°	1183.2	1222.7	1290.3	1335.3	1352.2
45°	1121.2	1166.3	1233.9	1284.6	1307.2
47.5°	1059.3	1104.3	1171.9	1228.3	1250.8
50°	991.6	1042.4	1115.6	1171.9	1194.5
52.5°	929.7	980.4	1053.6	1115.6	1143.8
55°	862.1	912.8	991.6	1059.3	1087.4
57.5°	794.4	845.2	929.7	1002.9	1031.1
60°	726.8	777.5	862.1	946.6	974.7
62.5°	653.6	709.9	800.1	884.6	918.4
65°	580.3	642.3	738.1	828.2	867.7
67.5°	512.7	574.7	676.1	777.5	811.3
70°	439.5	507.1	619.8	721.2	760.6
72.5°	366.2	439.5	563.4	670.5	709.9
75°	298.6	377.5	512.7	619.8	664.9
77.5°	225.4	321.2	462.0	574.7	614.1
80°	163.4	264.8	411.3	529.6	569.1
82.5°	107.1	214.1	366.2	484.6	524.0
85°	56.3	174.7	326.8	439.5	484.6
87.5°	16.9	135.2	287.4	400.0	439.5
90°	0.0	107.1	253.5	360.6	405.7
92.5°	0.0	84.5	219.7	326.8	366.2
95°	0.0	67.6	191.6	293.0	332.4
97.5°	0.0	56.3	169.0	264.8	298.6
100°	0.0	45.1	146.5	236.6	270.4
102.5°	0.0	33.8	124.0	208.5	242.3
105°	0.0	22.5	107.1	185.9	214.1
107.5°	0.0	16.9	90.1	163.4	191.6
110°	0.0	16.9	84.5	140.9	169.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.3	73.2	129.6	152.1
115°	0.0	11.3	62.0	112.7	135.2
117.5°	0.0	11.3	56.3	101.4	124.0
120°	0.0	11.3	50.7	90.1	107.1
122.5°	0.0	5.6	45.1	78.9	95.8
125°	0.0	5.6	39.4	73.2	84.5
127.5°	0.0	5.6	33.8	67.6	78.9
130°	0.0	5.6	33.8	62.0	73.2
132.5°	0.0	0.0	28.2	56.3	67.6
135°	0.0	0.0	22.5	45.1	56.3
137.5°	0.0	0.0	22.5	39.4	50.7
140°	0.0	0.0	16.9	39.4	45.1
142.5°	0.0	0.0	11.3	33.8	39.4
145°	0.0	0.0	11.3	28.2	33.8
147.5°	0.0	0.0	5.6	22.5	28.2
150°	0.0	0.0	5.6	16.9	22.5
152.5°	0.0	0.0	0.0	11.3	16.9
155°	0.0	0.0	0.0	5.6	11.3
157.5°	0.0	0.0	0.0	0.0	5.6
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	18.61	20.15	19.09	20.61	21.10	20.67	22.21	21.14	22.67	23.16
	3H	20.11	21.52	20.60	21.99	22.52	23.12	24.52	23.61	24.99	25.52
	4H	20.60	21.92	21.10	22.41	22.95	24.33	25.66	24.84	26.15	26.69
	6H	20.87	22.11	21.39	22.61	23.17	25.60	26.84	26.12	27.34	27.90
	8H	20.92	22.11	21.46	22.63	23.20	26.26	27.45	26.79	27.97	28.54
	12H	20.94	22.08	21.48	22.59	23.19	26.99	28.13	27.53	28.65	29.24
4H	2H	19.49	20.82	20.00	21.31	21.85	21.10	22.43	21.61	22.92	23.46
	3H	21.24	22.37	21.75	22.90	23.46	23.78	24.92	24.30	25.45	26.01
	4H	21.84	22.88	22.38	23.42	24.02	25.17	26.20	25.71	26.75	27.34
	6H	22.25	23.16	22.80	23.73	24.34	26.64	27.55	27.20	28.12	28.73
	8H	22.34	23.20	22.91	23.77	24.40	27.40	28.27	27.97	28.83	29.46
	12H	22.39	23.17	22.98	23.77	24.40	28.26	29.04	28.84	29.64	30.27
8H	4H	22.54	23.40	23.10	23.97	24.59	25.39	26.25	25.95	26.82	27.44
	6H	23.13	23.86	23.72	24.46	25.10	27.03	27.76	27.63	28.37	29.00
	8H	23.31	23.97	23.92	24.59	25.24	27.94	28.60	28.55	29.22	29.87
	12H	23.43	24.02	24.04	24.63	25.34	28.98	29.57	29.59	30.18	30.89
12H	4H	22.74	23.52	23.33	24.12	24.75	25.40	26.18	25.98	26.78	27.41
	6H	23.43	24.09	24.04	24.71	25.35	27.07	27.73	27.68	28.35	28.99
	8H	23.72	24.31	24.33	24.91	25.62	28.05	28.64	28.66	29.25	29.96