

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: P1357150

Luminaire Tested: 4ASL4-15HE-2-92765-UNV_4000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357150
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_4000K
Description: 4FT 1500 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 4000K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

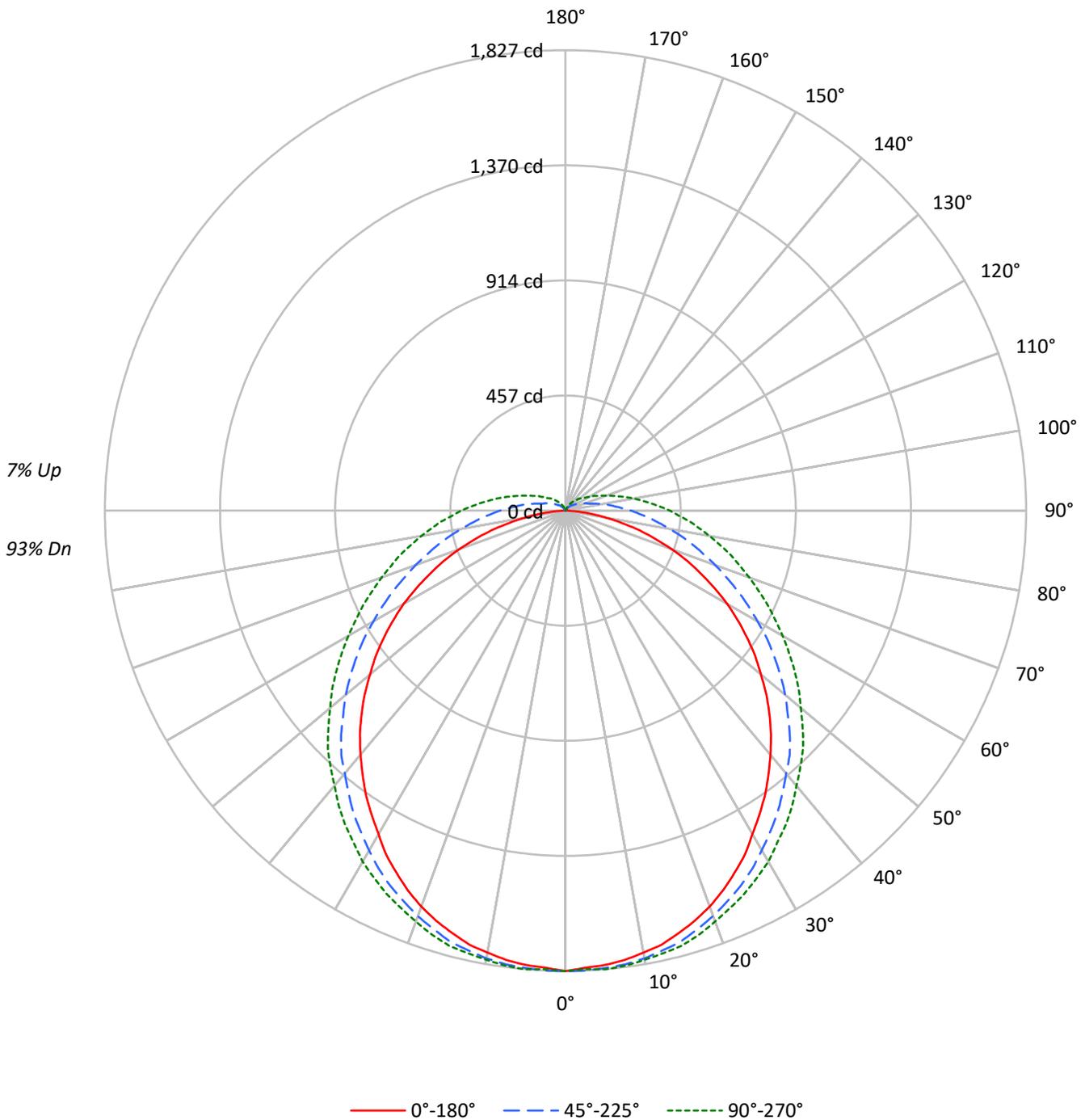
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6273.0 lumens
Efficiency: N/A
Efficacy: 116.0 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°	14829	14829	14829
5°	14711	14534	14490
10°	14611	14266	14136
15°	14478	13972	13854
20°	14304	13602	13456
25°	14029	13237	13113
30°	13685	12820	12772
35°	13417	12432	12377
40°	13104	12013	11960
45°	12789	11652	11657
50°	12382	11174	11206
55°	11991	10662	10849
60°	11508	10086	10468
65°	10760	9549	10174
70°	9921	9046	9903
75°	8698	8658	9813
80°	6779	8314	9784
85°	4121	8304	10065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12789 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	2.8
10°-20°	498.1	7.9
20°-30°	754.8	12.0
30°-40°	912.9	14.6
40°-50°	962.4	15.3
50°-60°	898.2	14.3
60°-70°	741.6	11.8
70°-80°	538.0	8.6
80°-90°	339.9	5.4
90°-100°	202.9	3.2
100°-110°	116.3	1.9
110°-120°	66.1	1.1
120°-130°	37.7	0.6
130°-140°	20.4	0.3
140°-150°	8.9	0.1
150°-160°	1.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1426.2	22.7
0°-40°	2339.1	37.3
0°-60°	4199.7	66.9
0°-90°	5819.1	92.8
90°-120°	385.3	6.1
90°-150°	452.3	7.2
90°-180°	454.0	7.2
0°-180°	6273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1827	1827	1827	1827	1827	
5°	1810	1827	1822	1822	1827	172
15°	1735	1758	1770	1776	1787	490
25°	1586	1609	1643	1666	1678	731
35°	1379	1414	1465	1506	1523	862
45°	1144	1189	1258	1310	1333	882
55°	879	931	1011	1080	1109	786
65°	592	655	753	845	885	588
75°	304	385	523	632	678	320
85°	58	178	333	448	494	70
90°	0	109	259	368	414	2
95°	0	69	195	299	339	0
105°	0	23	109	190	218	0
115°	0	12	63	115	138	0
125°	0	6	40	75	86	0
135°	0	0	23	46	58	0
145°	0	0	12	29	34	0
155°	0	0	0	6	12	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°	1827.3	1827.3	1827.3	1827.3	1827.3
2.5°	1815.8	1833.0	1827.3	1821.5	1821.5
5°	1810.0	1827.3	1821.5	1821.5	1827.3
7.5°	1798.5	1815.8	1815.8	1815.8	1821.5
10°	1781.3	1804.3	1804.3	1804.3	1810.0
12.5°	1764.1	1781.3	1787.0	1792.8	1798.5
15°	1735.3	1758.3	1769.8	1775.5	1787.0
17.5°	1706.6	1723.8	1741.1	1758.3	1764.1
20°	1672.1	1695.1	1712.3	1729.6	1735.3
22.5°	1631.9	1654.9	1677.9	1695.1	1706.6
25°	1585.9	1608.9	1643.4	1666.4	1677.9
27.5°	1540.0	1562.9	1603.2	1631.9	1643.4
30°	1482.5	1517.0	1557.2	1591.7	1608.9
32.5°	1430.8	1465.3	1511.2	1551.4	1562.9
35°	1379.1	1413.5	1465.3	1505.5	1522.7
37.5°	1321.6	1361.8	1413.5	1459.5	1476.7
40°	1264.1	1304.4	1361.8	1413.5	1425.0
42.5°	1206.7	1246.9	1315.9	1361.8	1379.1
45°	1143.5	1189.4	1258.4	1310.1	1333.1
47.5°	1080.3	1126.2	1195.2	1252.6	1275.6
50°	1011.3	1063.0	1137.7	1195.2	1218.2
52.5°	948.1	999.8	1074.5	1137.7	1166.5
55°	879.2	930.9	1011.3	1080.3	1109.0
57.5°	810.2	861.9	948.1	1022.8	1051.5
60°	741.2	793.0	879.2	965.3	994.1
62.5°	666.5	724.0	815.9	902.1	936.6
65°	591.8	655.1	752.7	844.7	884.9
67.5°	522.9	586.1	689.5	793.0	827.4
70°	448.2	517.1	632.1	735.5	775.7
72.5°	373.5	448.2	574.6	683.8	724.0
75°	304.5	385.0	522.9	632.1	678.0
77.5°	229.8	327.5	471.2	586.1	626.3
80°	166.6	270.1	419.5	540.1	580.4
82.5°	109.2	218.4	373.5	494.2	534.4
85°	57.5	178.1	333.3	448.2	494.2
87.5°	17.2	137.9	293.1	408.0	448.2
90°	0.0	109.2	258.6	367.8	413.7
92.5°	0.0	86.2	224.1	333.3	373.5
95°	0.0	69.0	195.4	298.8	339.0
97.5°	0.0	57.5	172.4	270.1	304.5
100°	0.0	46.0	149.4	241.3	275.8
102.5°	0.0	34.5	126.4	212.6	247.1
105°	0.0	23.0	109.2	189.6	218.4
107.5°	0.0	17.2	91.9	166.6	195.4
110°	0.0	17.2	86.2	143.7	172.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	11.5	74.7	132.2	155.1
115°	0.0	11.5	63.2	114.9	137.9
117.5°	0.0	11.5	57.5	103.4	126.4
120°	0.0	11.5	51.7	91.9	109.2
122.5°	0.0	5.7	46.0	80.4	97.7
125°	0.0	5.7	40.2	74.7	86.2
127.5°	0.0	5.7	34.5	69.0	80.4
130°	0.0	5.7	34.5	63.2	74.7
132.5°	0.0	0.0	28.7	57.5	69.0
135°	0.0	0.0	23.0	46.0	57.5
137.5°	0.0	0.0	23.0	40.2	51.7
140°	0.0	0.0	17.2	40.2	46.0
142.5°	0.0	0.0	11.5	34.5	40.2
145°	0.0	0.0	11.5	28.7	34.5
147.5°	0.0	0.0	5.7	23.0	28.7
150°	0.0	0.0	5.7	17.2	23.0
152.5°	0.0	0.0	0.0	11.5	17.2
155°	0.0	0.0	0.0	5.7	11.5
157.5°	0.0	0.0	0.0	0.0	5.7
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	18.68	20.22	19.15	20.68	21.17	20.74	22.28	21.21	22.74	23.23
	3H	20.18	21.58	20.67	22.05	22.58	23.19	24.59	23.68	25.06	25.59
	4H	20.66	21.99	21.17	22.48	23.02	24.40	25.73	24.91	26.22	26.76
	6H	20.94	22.17	21.46	22.68	23.24	25.67	26.91	26.19	27.41	27.97
	8H	20.99	22.18	21.52	22.70	23.27	26.33	27.52	26.86	28.04	28.61
	12H	21.01	22.14	21.54	22.66	23.26	27.06	28.20	27.60	28.72	29.31
4H	2H	19.56	20.89	20.07	21.38	21.92	21.17	22.50	21.68	22.99	23.53
	3H	21.30	22.44	21.82	22.97	23.53	23.85	24.98	24.37	25.51	26.08
	4H	21.91	22.95	22.45	23.49	24.09	25.24	26.27	25.78	26.81	27.41
	6H	22.31	23.23	22.87	23.80	24.41	26.71	27.62	27.26	28.19	28.80
	8H	22.41	23.27	22.97	23.84	24.46	27.47	28.33	28.04	28.90	29.53
	12H	22.46	23.24	23.04	23.84	24.47	28.33	29.11	28.91	29.70	30.33
8H	4H	22.61	23.47	23.17	24.04	24.66	25.46	26.32	26.02	26.89	27.51
	6H	23.19	23.92	23.79	24.53	25.16	27.10	27.83	27.70	28.44	29.07
	8H	23.38	24.04	23.99	24.66	25.30	28.01	28.67	28.62	29.29	29.93
	12H	23.50	24.09	24.11	24.70	25.41	29.05	29.64	29.66	30.25	30.96
12H	4H	22.81	23.59	23.39	24.19	24.82	25.47	26.25	26.05	26.84	27.47
	6H	23.50	24.16	24.11	24.78	25.42	27.14	27.80	27.75	28.42	29.06
	8H	23.79	24.37	24.40	24.98	25.69	28.12	28.71	28.73	29.32	30.03