

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: P1357485

Luminaire Tested: 8ASL4-20HE-2-92765-UNV_3500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357485
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: 8ASL4-20HE-2-92765-UNV_3500K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

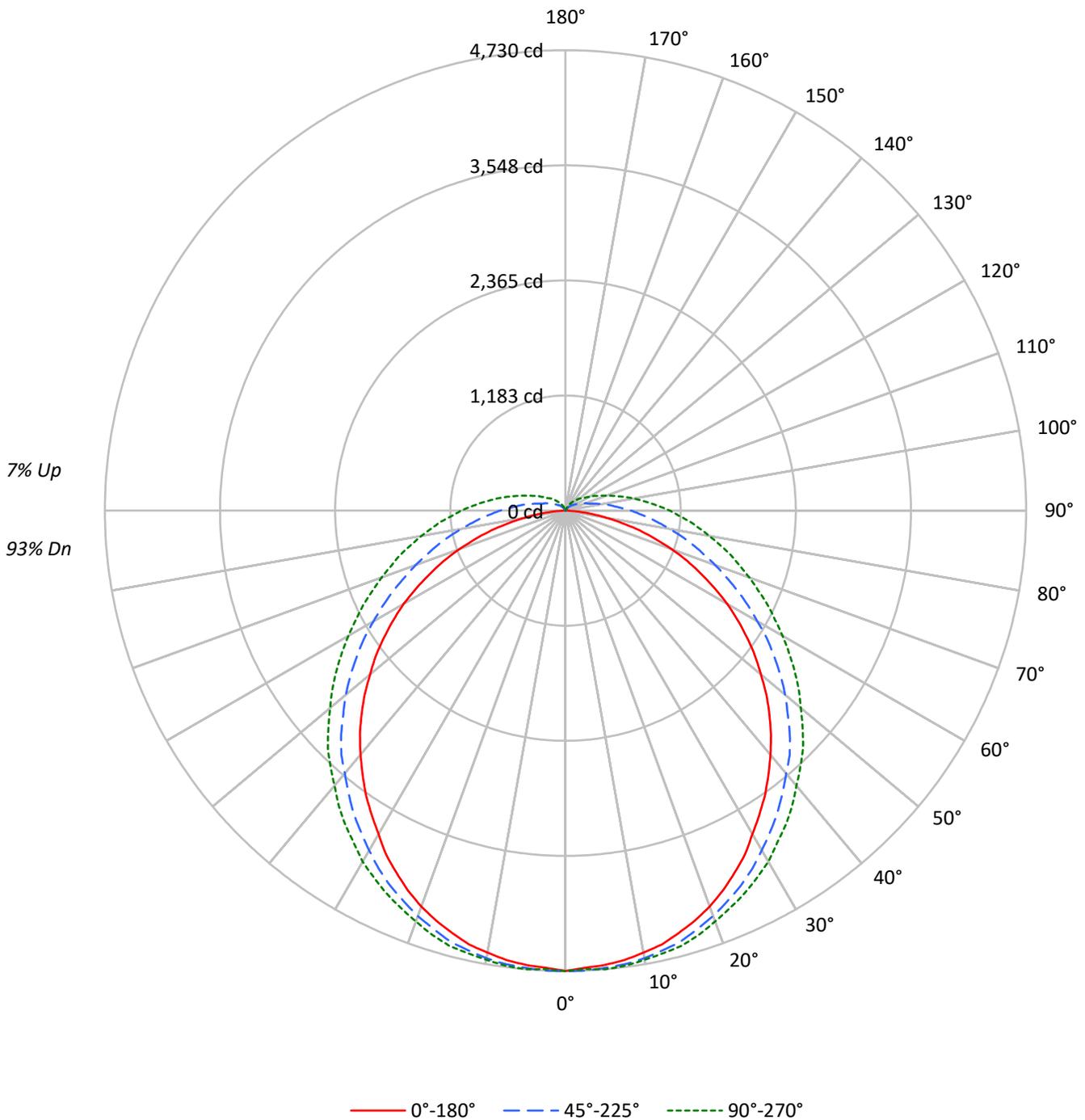
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16239.2 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 149.8
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: P1357485
CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

Luminous Intensity Polar Plot





TEST NUMBER: P1357485
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

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°	19144	19144	19144
5°	19014	18778	18705
10°	18907	18446	18250
15°	18756	18080	17885
20°	18554	17615	17371
25°	18222	17156	16929
30°	17800	16628	16489
35°	17478	16139	15979
40°	17101	15610	15440
45°	16723	15156	15049
50°	16231	14552	14467
55°	15764	13902	14006
60°	15188	13170	13514
65°	14272	12493	13135
70°	13254	11860	12785
75°	11755	11385	12670
80°	9361	10977	12630
85°	6012	11033	12993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16723 cd/sqm



TEST NUMBER: P1357485
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.6	2.8
10°-20°	1289.5	7.9
20°-30°	1953.9	12.0
30°-40°	2363.2	14.6
40°-50°	2491.4	15.3
50°-60°	2325.3	14.3
60°-70°	1919.8	11.8
70°-80°	1392.7	8.6
80°-90°	879.9	5.4
90°-100°	525.2	3.2
100°-110°	301.1	1.9
110°-120°	171.0	1.1
120°-130°	97.6	0.6
130°-140°	52.8	0.3
140°-150°	23.1	0.1
150°-160°	4.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3692.0	22.7
0°-40°	6055.2	37.3
0°-60°	10871.8	66.9
0°-90°	15064.2	92.8
90°-120°	997.3	6.1
90°-150°	1170.8	7.2
90°-180°	1175.0	7.2
0°-180°	16239.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4730	4730	4730	4730	4730	
5°	4686	4730	4715	4715	4730	445
15°	4492	4552	4582	4596	4626	1268
25°	4106	4165	4254	4314	4344	1891
35°	3570	3659	3793	3897	3942	2231
45°	2960	3079	3258	3392	3451	2283
55°	2276	2410	2618	2796	2871	2034
65°	1532	1696	1949	2187	2291	1522
75°	788	997	1354	1636	1755	829
85°	149	461	863	1160	1279	182
90°	0	283	669	952	1071	6
95°	0	178	506	774	878	0
105°	0	60	283	491	565	0
115°	0	30	164	298	357	0
125°	0	15	104	193	223	0
135°	0	0	60	119	149	0
145°	0	0	30	74	89	0
155°	0	0	0	15	30	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357485

CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4730.3	4730.3	4730.3	4730.3	4730.3
2.5°	4700.5	4745.1	4730.3	4715.4	4715.4
5°	4685.6	4730.3	4715.4	4715.4	4730.3
7.5°	4655.9	4700.5	4700.5	4700.5	4715.4
10°	4611.3	4670.8	4670.8	4670.8	4685.6
12.5°	4566.6	4611.3	4626.1	4641.0	4655.9
15°	4492.3	4551.8	4581.5	4596.4	4626.1
17.5°	4417.9	4462.5	4507.1	4551.8	4566.6
20°	4328.6	4388.1	4432.8	4477.4	4492.3
22.5°	4224.5	4284.0	4343.5	4388.1	4417.9
25°	4105.5	4165.0	4254.3	4313.8	4343.5
27.5°	3986.5	4046.0	4150.1	4224.5	4254.3
30°	3837.8	3927.0	4031.1	4120.4	4165.0
32.5°	3703.9	3793.1	3912.1	4016.3	4046.0
35°	3570.0	3659.3	3793.1	3897.3	3941.9
37.5°	3421.3	3525.4	3659.3	3778.3	3822.9
40°	3272.5	3376.6	3525.4	3659.3	3689.0
42.5°	3123.8	3227.9	3406.4	3525.4	3570.0
45°	2960.1	3079.1	3257.6	3391.5	3451.0
47.5°	2796.5	2915.5	3094.0	3242.8	3302.3
50°	2618.0	2751.9	2945.3	3094.0	3153.5
52.5°	2454.4	2588.3	2781.6	2945.3	3019.6
55°	2275.9	2409.8	2618.0	2796.5	2870.9
57.5°	2097.4	2231.3	2454.4	2647.8	2722.1
60°	1918.9	2052.8	2275.9	2499.0	2573.4
62.5°	1725.5	1874.3	2112.3	2335.4	2424.6
65°	1532.1	1695.8	1948.6	2186.6	2290.8
67.5°	1353.6	1517.3	1785.0	2052.8	2142.0
70°	1160.3	1338.8	1636.3	1904.0	2008.1
72.5°	966.9	1160.3	1487.5	1770.1	1874.3
75°	788.4	996.6	1353.6	1636.3	1755.3
77.5°	595.0	847.9	1219.8	1517.3	1621.4
80°	431.4	699.1	1085.9	1398.3	1502.4
82.5°	282.6	565.3	966.9	1279.3	1383.4
85°	148.8	461.1	862.8	1160.3	1279.3
87.5°	44.6	357.0	758.6	1056.1	1160.3
90°	0.0	282.6	669.4	952.0	1071.0
92.5°	0.0	223.1	580.1	862.8	966.9
95°	0.0	178.5	505.8	773.5	877.6
97.5°	0.0	148.8	446.3	699.1	788.4
100°	0.0	119.0	386.8	624.8	714.0
102.5°	0.0	89.3	327.3	550.4	639.6
105°	0.0	59.5	282.6	490.9	565.3
107.5°	0.0	44.6	238.0	431.4	505.8
110°	0.0	44.6	223.1	371.9	446.3



TEST NUMBER: P1357485
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.8	193.4	342.1	401.6
115°	0.0	29.8	163.6	297.5	357.0
117.5°	0.0	29.8	148.8	267.8	327.3
120°	0.0	29.8	133.9	238.0	282.6
122.5°	0.0	14.9	119.0	208.3	252.9
125°	0.0	14.9	104.1	193.4	223.1
127.5°	0.0	14.9	89.3	178.5	208.3
130°	0.0	14.9	89.3	163.6	193.4
132.5°	0.0	0.0	74.4	148.8	178.5
135°	0.0	0.0	59.5	119.0	148.8
137.5°	0.0	0.0	59.5	104.1	133.9
140°	0.0	0.0	44.6	104.1	119.0
142.5°	0.0	0.0	29.8	89.3	104.1
145°	0.0	0.0	29.8	74.4	89.3
147.5°	0.0	0.0	14.9	59.5	74.4
150°	0.0	0.0	14.9	44.6	59.5
152.5°	0.0	0.0	0.0	29.8	44.6
155°	0.0	0.0	0.0	14.9	29.8
157.5°	0.0	0.0	0.0	0.0	14.9
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: P1357485
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV_3500K

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	19.58	21.12	20.06	21.58	22.07	21.68	23.22	22.16	23.68	24.17
	3H	21.08	22.49	21.57	22.96	23.49	24.16	25.56	24.64	26.03	26.56
	4H	21.56	22.89	22.07	23.38	23.92	25.38	26.71	25.89	27.20	27.74
	6H	21.84	23.08	22.36	23.58	24.14	26.68	27.92	27.20	28.42	28.98
	8H	21.89	23.08	22.42	23.60	24.17	27.36	28.55	27.89	29.07	29.64
	12H	21.91	23.04	22.45	23.56	24.16	28.13	29.27	28.67	29.79	30.38
4H	2H	20.47	21.80	20.98	22.29	22.83	22.11	23.44	22.62	23.93	24.47
	3H	22.21	23.35	22.73	23.88	24.44	24.81	25.95	25.33	26.48	27.04
	4H	22.82	23.86	23.36	24.40	25.00	26.21	27.25	26.75	27.79	28.39
	6H	23.22	24.14	23.78	24.71	25.32	27.71	28.63	28.27	29.19	29.81
	8H	23.32	24.18	23.88	24.75	25.37	28.50	29.36	29.06	29.93	30.55
	12H	23.37	24.15	23.95	24.74	25.38	29.39	30.18	29.98	30.77	31.40
8H	4H	23.53	24.39	24.09	24.96	25.58	26.43	27.29	27.00	27.86	28.49
	6H	24.11	24.84	24.71	25.45	26.08	28.10	28.83	28.70	29.44	30.07
	8H	24.30	24.96	24.91	25.58	26.22	29.04	29.70	29.65	30.32	30.96
	12H	24.42	25.01	25.03	25.62	26.33	30.12	30.70	30.73	31.31	32.02
12H	4H	23.73	24.52	24.32	25.11	25.74	26.44	27.22	27.03	27.82	28.45
	6H	24.42	25.09	25.03	25.70	26.35	28.14	28.80	28.75	29.42	30.06
	8H	24.71	25.30	25.32	25.91	26.62	29.14	29.73	29.75	30.34	31.05