

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: P1357484

Luminaire Tested: 8ASL4-20HE-2-92765-UNV\_3000K

Issue Date: 2/17/2026

**Test Information**

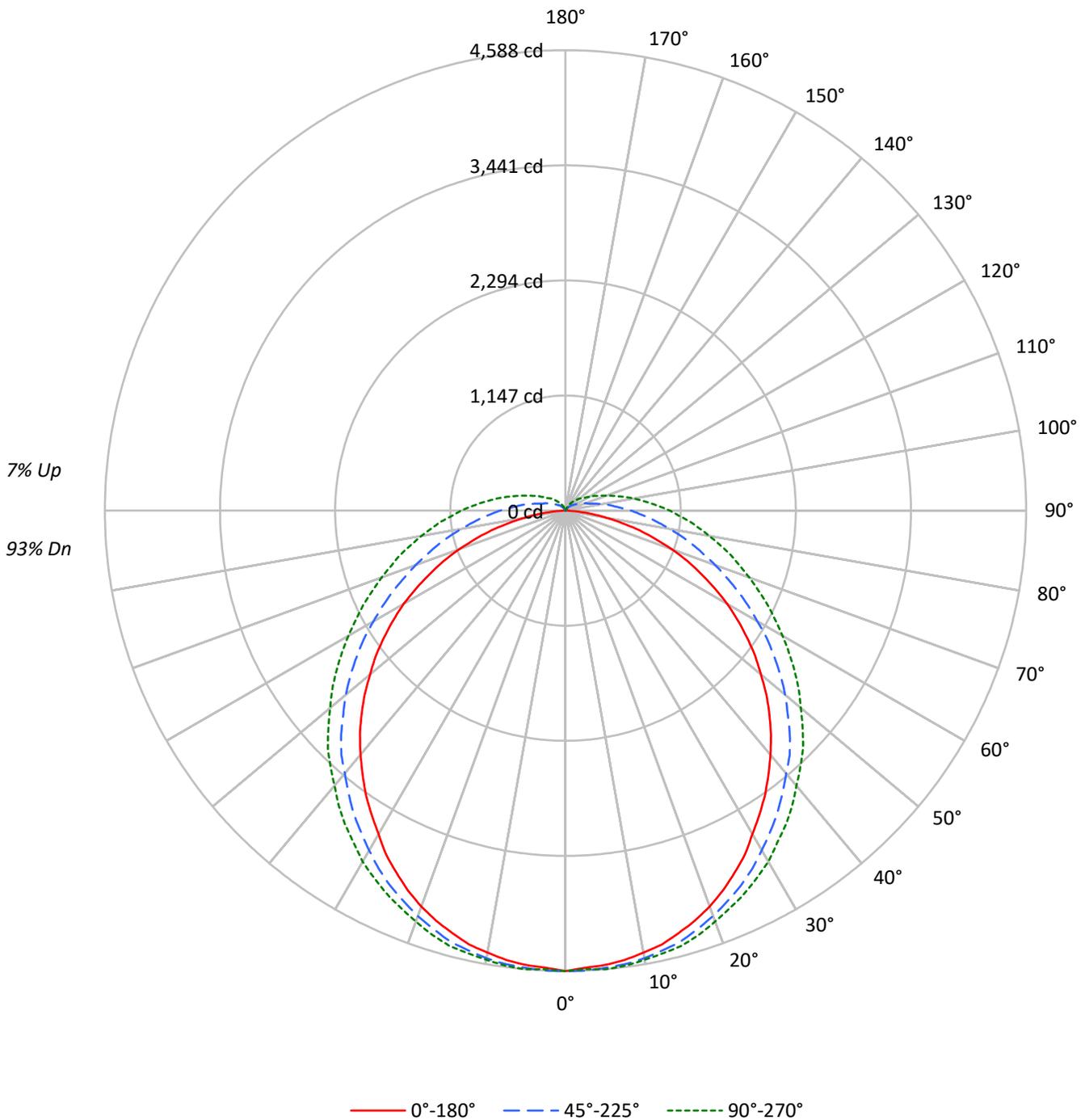
Test Method: LM-79-2019  
Report Number: P1357484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-20HE-2-92765-UNV\_3000K  
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 2 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15752.0 lumens  
Efficiency: N/A  
Efficacy: 105.2 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<sub>in</sub>): 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: P1357484  
CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P1357484

CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

**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°	18569	18569	18569
5°	18443	18215	18144
10°	18339	17893	17703
15°	18193	17538	17349
20°	17998	17087	16850
25°	17675	16641	16421
30°	17267	16129	15994
35°	16954	15655	15500
40°	16589	15142	14977
45°	16222	14701	14597
50°	15744	14115	14033
55°	15291	13485	13586
60°	14732	12775	13109
65°	13844	12118	12741
70°	12857	11505	12401
75°	11402	11043	12290
80°	9079	10647	12251
85°	5831	10702	12603

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16222 cd/sqm



TEST NUMBER: P1357484  
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.1	2.8
10°-20°	1250.8	7.9
20°-30°	1895.3	12.0
30°-40°	2292.3	14.6
40°-50°	2416.7	15.3
50°-60°	2255.5	14.3
60°-70°	1862.2	11.8
70°-80°	1350.9	8.6
80°-90°	853.5	5.4
90°-100°	509.5	3.2
100°-110°	292.0	1.9
110°-120°	165.9	1.1
120°-130°	94.6	0.6
130°-140°	51.2	0.3
140°-150°	22.4	0.1
150°-160°	4.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3581.2	22.7
0°-40°	5873.6	37.3
0°-60°	10545.7	66.9
0°-90°	14612.3	92.8
90°-120°	967.4	6.1
90°-150°	1135.7	7.2
90°-180°	1140.0	7.2
0°-180°	15752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4588	4588	4588	4588	4588	
5°	4545	4588	4574	4574	4588	432
15°	4358	4415	4444	4458	4487	1230
25°	3982	4040	4127	4184	4213	1834
35°	3463	3550	3679	3780	3824	2164
45°	2871	2987	3160	3290	3348	2214
55°	2208	2338	2540	2713	2785	1973
65°	1486	1645	1890	2121	2222	1476
75°	765	967	1313	1587	1703	804
85°	144	447	837	1126	1241	176
90°	0	274	649	924	1039	6
95°	0	173	491	750	851	0
105°	0	58	274	476	548	0
115°	0	29	159	289	346	0
125°	0	14	101	188	216	0
135°	0	0	58	115	144	0
145°	0	0	29	72	87	0
155°	0	0	0	14	29	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P1357484

CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4588.4	4588.4	4588.4	4588.4	4588.4
2.5°	4559.5	4602.8	4588.4	4574.0	4574.0
5°	4545.1	4588.4	4574.0	4574.0	4588.4
7.5°	4516.2	4559.5	4559.5	4559.5	4574.0
10°	4473.0	4530.7	4530.7	4530.7	4545.1
12.5°	4429.7	4473.0	4487.4	4501.8	4516.2
15°	4357.5	4415.2	4444.1	4458.5	4487.4
17.5°	4285.4	4328.7	4372.0	4415.2	4429.7
20°	4198.8	4256.5	4299.8	4343.1	4357.5
22.5°	4097.8	4155.5	4213.2	4256.5	4285.4
25°	3982.4	4040.1	4126.7	4184.4	4213.2
27.5°	3866.9	3924.7	4025.7	4097.8	4126.7
30°	3722.7	3809.2	3910.2	3996.8	4040.1
32.5°	3592.8	3679.4	3794.8	3895.8	3924.7
35°	3462.9	3549.5	3679.4	3780.4	3823.7
37.5°	3318.7	3419.7	3549.5	3664.9	3708.2
40°	3174.4	3275.4	3419.7	3549.5	3578.4
42.5°	3030.1	3131.1	3304.2	3419.7	3462.9
45°	2871.4	2986.8	3159.9	3289.8	3347.5
47.5°	2712.6	2828.1	3001.2	3145.5	3203.2
50°	2539.5	2669.3	2856.9	3001.2	3058.9
52.5°	2380.8	2510.6	2698.2	2856.9	2929.1
55°	2207.6	2337.5	2539.5	2712.6	2784.8
57.5°	2034.5	2164.3	2380.8	2568.3	2640.5
60°	1861.3	1991.2	2207.6	2424.1	2496.2
62.5°	1673.8	1818.0	2048.9	2265.3	2351.9
65°	1486.2	1644.9	1890.2	2121.1	2222.1
67.5°	1313.0	1471.7	1731.5	1991.2	2077.8
70°	1125.5	1298.6	1587.2	1846.9	1947.9
72.5°	937.9	1125.5	1442.9	1717.0	1818.0
75°	764.7	966.7	1313.0	1587.2	1702.6
77.5°	577.2	822.4	1183.2	1471.7	1572.8
80°	418.4	678.2	1053.3	1356.3	1457.3
82.5°	274.1	548.3	937.9	1240.9	1341.9
85°	144.3	447.3	836.9	1125.5	1240.9
87.5°	43.3	346.3	735.9	1024.5	1125.5
90°	0.0	274.1	649.3	923.5	1038.9
92.5°	0.0	216.4	562.7	836.9	937.9
95°	0.0	173.1	490.6	750.3	851.3
97.5°	0.0	144.3	432.9	678.2	764.7
100°	0.0	115.4	375.2	606.0	692.6
102.5°	0.0	86.6	317.4	533.9	620.4
105°	0.0	57.7	274.1	476.2	548.3
107.5°	0.0	43.3	230.9	418.4	490.6
110°	0.0	43.3	216.4	360.7	432.9



TEST NUMBER: P1357484  
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.9	187.6	331.9	389.6
115°	0.0	28.9	158.7	288.6	346.3
117.5°	0.0	28.9	144.3	259.7	317.4
120°	0.0	28.9	129.9	230.9	274.1
122.5°	0.0	14.4	115.4	202.0	245.3
125°	0.0	14.4	101.0	187.6	216.4
127.5°	0.0	14.4	86.6	173.1	202.0
130°	0.0	14.4	86.6	158.7	187.6
132.5°	0.0	0.0	72.1	144.3	173.1
135°	0.0	0.0	57.7	115.4	144.3
137.5°	0.0	0.0	57.7	101.0	129.9
140°	0.0	0.0	43.3	101.0	115.4
142.5°	0.0	0.0	28.9	86.6	101.0
145°	0.0	0.0	28.9	72.1	86.6
147.5°	0.0	0.0	14.4	57.7	72.1
150°	0.0	0.0	14.4	43.3	57.7
152.5°	0.0	0.0	0.0	28.9	43.3
155°	0.0	0.0	0.0	14.4	28.9
157.5°	0.0	0.0	0.0	0.0	14.4
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: P1357484  
 CATALOG NUMBER: 8ASL4-20HE-2-92765-UNV\_3000K

**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	19.48	21.01	19.95	21.47	21.96	21.58	23.11	22.05	23.58	24.07
	3H	20.98	22.38	21.46	22.85	23.38	24.05	25.45	24.54	25.92	26.45
	4H	21.46	22.79	21.96	23.27	23.82	25.28	26.60	25.78	27.09	27.64
	6H	21.73	22.97	22.25	23.47	24.03	26.58	27.81	27.09	28.31	28.87
	8H	21.79	22.97	22.32	23.50	24.06	27.26	28.44	27.79	28.97	29.53
	12H	21.80	22.94	22.34	23.46	24.05	28.02	29.16	28.56	29.68	30.28
4H	2H	20.37	21.69	20.87	22.18	22.72	22.01	23.34	22.51	23.82	24.37
	3H	22.11	23.24	22.63	23.77	24.34	24.71	25.84	25.23	26.37	26.94
	4H	22.72	23.75	23.25	24.29	24.89	26.11	27.14	26.65	27.69	28.28
	6H	23.12	24.03	23.68	24.60	25.21	27.61	28.52	28.16	29.09	29.70
	8H	23.21	24.08	23.78	24.64	25.27	28.39	29.26	28.96	29.82	30.45
	12H	23.26	24.04	23.85	24.64	25.27	29.29	30.07	29.87	30.66	31.29
8H	4H	23.42	24.28	23.99	24.85	25.47	26.33	27.19	26.89	27.76	28.38
	6H	24.01	24.74	24.60	25.35	25.98	28.00	28.73	28.59	29.34	29.97
	8H	24.20	24.86	24.80	25.47	26.12	28.93	29.59	29.54	30.21	30.85
	12H	24.32	24.91	24.93	25.51	26.22	30.01	30.60	30.62	31.21	31.92
12H	4H	23.63	24.41	24.21	25.00	25.64	26.34	27.12	26.92	27.71	28.34
	6H	24.32	24.98	24.93	25.60	26.24	28.04	28.70	28.64	29.32	29.96
	8H	24.61	25.20	25.22	25.80	26.51	29.04	29.63	29.65	30.24	30.95