

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: P1357500

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV\_3500K

Issue Date: 2/17/2026

**Test Information**

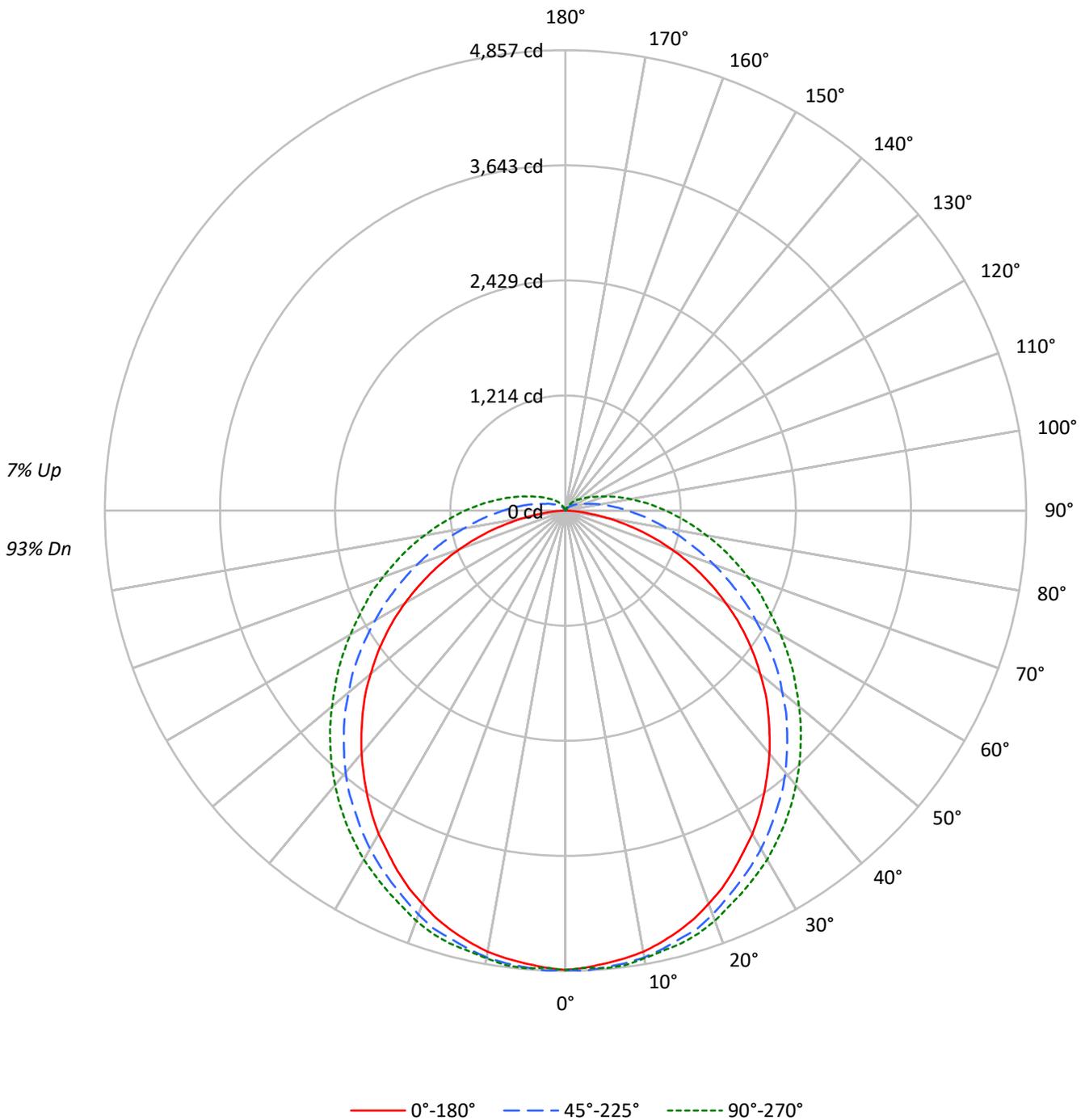
Test Method: LM-79-2019  
Report Number: P1357500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-20VHE-3-92765-UNV\_3500K  
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3500K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16479.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 7.98' x H: 0.1')  
CIE Type: Direct  
  
Input Watts (W): 146.2  
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: P1357500  
CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV\_3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P1357500  
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-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	96	96	96	96	96	96	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	77	77	77	74
2	95	86	79	72	92	84	77	71	79	73	68	75	70	66	71	67	63	63	63	63	61
3	86	75	67	60	83	73	65	59	69	62	57	65	60	55	62	57	53	53	53	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	52	47	55	50	45	45	45	45	43
5	73	59	50	43	70	58	49	42	55	47	41	52	45	40	49	44	39	39	39	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	45	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	35	29	41	34	28	39	32	28	37	32	27	27	27	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	30	25	35	29	24	24	24	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	23	32	26	22	22	22	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	19615	19615	19615
5°	19463	19261	19166
10°	19376	18902	18681
15°	19184	18451	18270
20°	18918	18018	17807
25°	18604	17472	17280
30°	18273	17000	16834
35°	17858	16463	16338
40°	17482	15972	15815
45°	17078	15376	15291
50°	16617	14736	14746
55°	16123	14125	14256
60°	15472	13411	13758
65°	14643	12726	13346
70°	13582	12051	13023
75°	12019	11441	12801
80°	9622	11000	12706
85°	6105	10952	12895

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17078 cd/sqm



TEST NUMBER: P1357500  
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV\_3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.6	2.8
10°-20°	1319.6	8.0
20°-30°	1995.1	12.1
30°-40°	2415.8	14.7
40°-50°	2537.3	15.4
50°-60°	2367.2	14.4
60°-70°	1956.3	11.9
70°-80°	1408.6	8.5
80°-90°	875.3	5.3
90°-100°	512.9	3.1
100°-110°	293.4	1.8
110°-120°	165.7	1.0
120°-130°	95.3	0.6
130°-140°	51.4	0.3
140°-150°	21.6	0.1
150°-160°	4.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3774.3	22.9
0°-40°	6190.0	37.6
0°-60°	11094.5	67.3
0°-90°	15334.7	93.1
90°-120°	972.0	5.9
90°-150°	1140.3	6.9
90°-180°	1144.0	6.9
0°-180°	16479.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4847	4847	4847	4847	4847	
5°	4796	4837	4837	4837	4847	456
15°	4595	4655	4675	4706	4726	1296
25°	4192	4262	4333	4393	4434	1931
35°	3648	3748	3869	3980	4030	2283
45°	3023	3134	3305	3446	3506	2332
55°	2328	2459	2660	2852	2922	2080
65°	1572	1723	1985	2237	2328	1555
75°	806	1008	1360	1652	1773	853
85°	151	453	856	1159	1270	185
90°	0	272	655	937	1058	7
95°	0	171	494	756	867	0
105°	0	60	272	474	554	0
115°	0	30	161	292	343	0
125°	0	20	101	191	222	0
135°	0	0	60	121	151	0
145°	0	0	30	70	81	0
155°	0	0	0	20	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: P1357500  
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV\_3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4846.7	4846.7	4846.7	4846.7	4846.7
2.5°	4826.5	4856.8	4856.8	4826.5	4826.5
5°	4796.3	4836.6	4836.6	4836.6	4846.7
7.5°	4766.1	4816.5	4816.5	4816.5	4836.6
10°	4725.8	4776.2	4786.2	4786.2	4796.3
12.5°	4665.3	4725.8	4735.9	4745.9	4756.0
15°	4594.8	4655.2	4675.4	4705.6	4725.8
17.5°	4514.2	4584.7	4625.0	4655.2	4675.4
20°	4413.4	4483.9	4534.3	4574.6	4604.9
22.5°	4312.7	4373.1	4433.6	4483.9	4514.2
25°	4191.7	4262.3	4332.8	4393.3	4433.6
27.5°	4060.7	4141.4	4232.0	4302.6	4342.9
30°	3939.8	4020.4	4121.2	4211.9	4252.2
32.5°	3798.8	3889.4	4000.3	4091.0	4141.4
35°	3647.6	3748.4	3869.3	3980.1	4030.5
37.5°	3496.5	3597.2	3748.4	3859.2	3909.6
40°	3345.3	3446.1	3607.3	3728.2	3778.6
42.5°	3184.1	3284.9	3456.2	3587.2	3647.6
45°	3022.9	3133.7	3305.0	3446.1	3506.5
47.5°	2861.7	2972.5	3153.9	3305.0	3365.5
50°	2680.3	2801.2	2982.6	3153.9	3214.3
52.5°	2509.0	2629.9	2831.4	3002.7	3063.2
55°	2327.6	2458.6	2660.1	2851.6	2922.1
57.5°	2146.2	2277.2	2488.8	2690.4	2771.0
60°	1954.8	2095.9	2317.5	2529.1	2619.8
62.5°	1763.4	1914.5	2156.3	2378.0	2468.7
65°	1571.9	1723.0	1985.0	2236.9	2327.6
67.5°	1380.5	1541.7	1823.8	2085.8	2196.6
70°	1189.0	1360.3	1662.6	1934.6	2045.5
72.5°	997.6	1178.9	1511.4	1793.6	1904.4
75°	806.1	1007.6	1360.3	1652.5	1773.4
77.5°	614.7	846.4	1229.3	1521.5	1642.4
80°	443.4	705.3	1088.2	1390.5	1511.4
82.5°	282.1	564.3	967.3	1269.6	1390.5
85°	151.1	453.4	856.5	1158.8	1269.6
87.5°	50.4	352.7	745.6	1047.9	1158.8
90°	0.0	272.1	655.0	937.1	1058.0
92.5°	0.0	211.6	574.3	846.4	957.2
95°	0.0	171.3	493.7	755.7	866.6
97.5°	0.0	141.1	433.3	675.1	775.9
100°	0.0	110.8	372.8	604.6	695.3
102.5°	0.0	90.7	322.4	534.0	624.7
105°	0.0	60.5	272.1	473.6	554.2
107.5°	0.0	50.4	231.8	423.2	493.7
110°	0.0	40.3	211.6	362.7	433.3



TEST NUMBER: P1357500  
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV\_3500K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.2	191.4	322.4	393.0
115°	0.0	30.2	161.2	292.2	342.6
117.5°	0.0	30.2	141.1	262.0	312.4
120°	0.0	20.2	131.0	231.8	282.1
122.5°	0.0	20.2	110.8	211.6	251.9
125°	0.0	20.2	100.8	191.4	221.7
127.5°	0.0	10.1	90.7	171.3	201.5
130°	0.0	10.1	80.6	151.1	181.4
132.5°	0.0	10.1	70.5	141.1	171.3
135°	0.0	0.0	60.5	120.9	151.1
137.5°	0.0	0.0	50.4	110.8	131.0
140°	0.0	0.0	40.3	90.7	120.9
142.5°	0.0	0.0	30.2	80.6	100.8
145°	0.0	0.0	30.2	70.5	80.6
147.5°	0.0	0.0	20.2	50.4	70.5
150°	0.0	0.0	10.1	40.3	50.4
152.5°	0.0	0.0	0.0	30.2	40.3
155°	0.0	0.0	0.0	20.2	30.2
157.5°	0.0	0.0	0.0	0.0	10.1
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: P1357500  
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-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	19.69	21.23	20.16	21.68	22.17	21.76	23.30	22.23	23.75	24.24
	3H	21.18	22.59	21.67	23.05	23.58	24.24	25.64	24.72	26.11	26.63
	4H	21.67	23.00	22.17	23.48	24.02	25.45	26.79	25.96	27.27	27.81
	6H	21.94	23.18	22.46	23.68	24.23	26.73	27.97	27.25	28.47	29.02
	8H	21.99	23.18	22.52	23.70	24.26	27.40	28.59	27.93	29.11	29.67
	12H	22.01	23.15	22.54	23.66	24.25	28.15	29.29	28.68	29.80	30.39
4H	2H	20.57	21.90	21.08	22.39	22.92	22.19	23.52	22.69	24.00	24.54
	3H	22.31	23.44	22.82	23.97	24.53	24.90	26.03	25.41	26.56	27.12
	4H	22.91	23.95	23.45	24.49	25.08	26.28	27.32	26.82	27.86	28.45
	6H	23.31	24.23	23.86	24.79	25.40	27.75	28.67	28.31	29.23	29.84
	8H	23.40	24.27	23.96	24.83	25.45	28.53	29.39	29.09	29.95	30.57
	12H	23.45	24.23	24.03	24.82	25.45	29.40	30.18	29.98	30.77	31.40
8H	4H	23.60	24.47	24.16	25.03	25.65	26.50	27.36	27.06	27.92	28.54
	6H	24.18	24.91	24.77	25.52	26.14	28.14	28.87	28.73	29.47	30.10
	8H	24.36	25.02	24.97	25.64	26.28	29.05	29.71	29.66	30.33	30.97
	12H	24.48	25.07	25.09	25.67	26.38	30.11	30.70	30.72	31.30	32.01
12H	4H	23.80	24.59	24.38	25.18	25.80	26.50	27.29	27.09	27.88	28.50
	6H	24.48	25.14	25.09	25.76	26.40	28.17	28.83	28.78	29.45	30.09
	8H	24.76	25.35	25.37	25.96	26.66	29.16	29.75	29.76	30.35	31.05