

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: P1357499

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV_3000K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357499
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_3000K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 3000K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

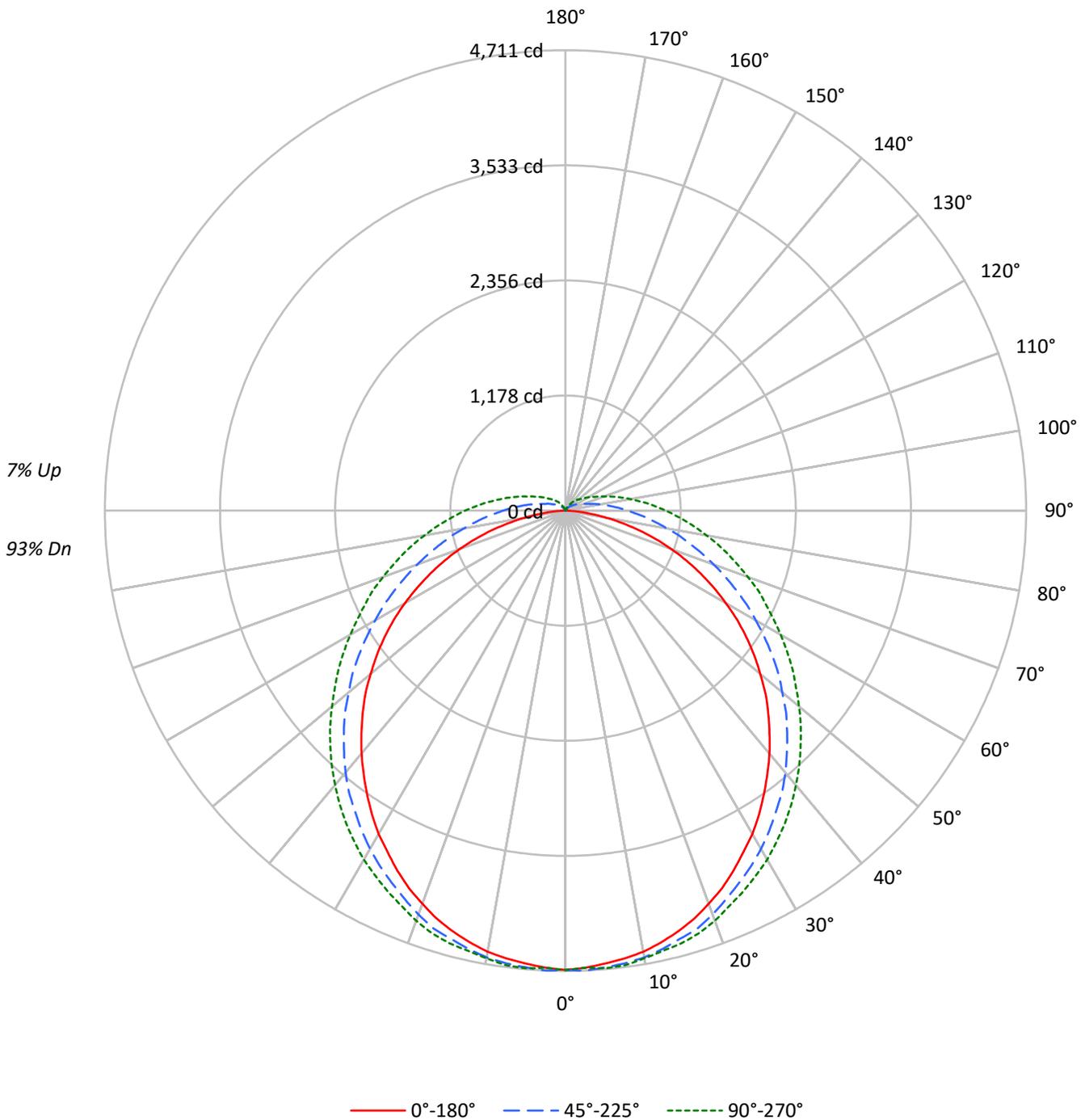
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15984.0 lumens
Efficiency: N/A
Efficacy: 109.3 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_{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: P1357499
CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P1357499
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-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	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°	19026	19026	19026
5°	18878	18682	18590
10°	18794	18334	18120
15°	18608	17897	17721
20°	18349	17477	17272
25°	18046	16948	16761
30°	17725	16489	16328
35°	17321	15968	15847
40°	16957	15493	15340
45°	16565	14914	14831
50°	16118	14293	14303
55°	15638	13701	13827
60°	15008	13008	13345
65°	14203	12344	12945
70°	13174	11689	12631
75°	11658	11097	12417
80°	9331	10671	12324
85°	5923	10624	12508

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16565 cd/sqm



TEST NUMBER: P1357499
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.8	2.8
10°-20°	1279.9	8.0
20°-30°	1935.2	12.1
30°-40°	2343.2	14.7
40°-50°	2461.1	15.4
50°-60°	2296.1	14.4
60°-70°	1897.6	11.9
70°-80°	1366.3	8.5
80°-90°	849.0	5.3
90°-100°	497.5	3.1
100°-110°	284.6	1.8
110°-120°	160.7	1.0
120°-130°	92.5	0.6
130°-140°	49.8	0.3
140°-150°	21.0	0.1
150°-160°	3.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3660.9	22.9
0°-40°	6004.1	37.6
0°-60°	10761.2	67.3
0°-90°	14874.1	93.1
90°-120°	942.8	5.9
90°-150°	1106.0	6.9
90°-180°	1110.0	6.9
0°-180°	15984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4701	4701	4701	4701	4701	
5°	4652	4691	4691	4691	4701	442
15°	4457	4515	4535	4564	4584	1257
25°	4066	4134	4203	4261	4300	1873
35°	3538	3636	3753	3861	3909	2215
45°	2932	3040	3206	3343	3401	2262
55°	2258	2385	2580	2766	2834	2017
65°	1525	1671	1925	2170	2258	1509
75°	782	977	1319	1603	1720	827
85°	147	440	831	1124	1232	179
90°	0	264	635	909	1026	7
95°	0	166	479	733	840	0
105°	0	59	264	459	538	0
115°	0	29	156	283	332	0
125°	0	20	98	186	215	0
135°	0	0	59	117	147	0
145°	0	0	29	68	78	0
155°	0	0	0	20	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: P1357499
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4701.1	4701.1	4701.1	4701.1	4701.1
2.5°	4681.6	4710.9	4710.9	4681.6	4681.6
5°	4652.2	4691.3	4691.3	4691.3	4701.1
7.5°	4622.9	4671.8	4671.8	4671.8	4691.3
10°	4583.8	4632.7	4642.5	4642.5	4652.2
12.5°	4525.2	4583.8	4593.6	4603.4	4613.1
15°	4456.8	4515.4	4535.0	4564.3	4583.8
17.5°	4378.6	4447.0	4486.1	4515.4	4535.0
20°	4280.8	4349.3	4398.1	4437.2	4466.5
22.5°	4183.1	4241.7	4300.4	4349.3	4378.6
25°	4065.8	4134.2	4202.7	4261.3	4300.4
27.5°	3938.8	4017.0	4104.9	4173.3	4212.4
30°	3821.5	3899.7	3997.4	4085.4	4124.5
32.5°	3684.7	3772.6	3880.1	3968.1	4017.0
35°	3538.0	3635.8	3753.1	3860.6	3909.4
37.5°	3391.4	3489.2	3635.8	3743.3	3792.2
40°	3244.8	3342.6	3499.0	3616.2	3665.1
42.5°	3088.5	3186.2	3352.4	3479.4	3538.0
45°	2932.1	3039.6	3205.7	3342.6	3401.2
47.5°	2775.7	2883.2	3059.1	3205.7	3264.4
50°	2599.8	2717.1	2893.0	3059.1	3117.8
52.5°	2433.6	2550.9	2746.4	2912.5	2971.2
55°	2257.7	2384.8	2580.2	2765.9	2834.3
57.5°	2081.8	2208.8	2414.1	2609.6	2687.7
60°	1896.1	2032.9	2247.9	2453.2	2541.1
62.5°	1710.4	1857.0	2091.6	2306.6	2394.5
65°	1524.7	1671.3	1925.4	2169.7	2257.7
67.5°	1339.0	1495.4	1769.0	2023.1	2130.6
70°	1153.3	1319.4	1612.6	1876.5	1984.0
72.5°	967.6	1143.5	1466.0	1739.7	1847.2
75°	781.9	977.4	1319.4	1602.9	1720.2
77.5°	596.2	821.0	1192.4	1475.8	1593.1
80°	430.0	684.2	1055.6	1348.8	1466.0
82.5°	273.7	547.3	938.3	1231.5	1348.8
85°	146.6	439.8	830.8	1124.0	1231.5
87.5°	48.9	342.1	723.2	1016.5	1124.0
90°	0.0	263.9	635.3	908.9	1026.2
92.5°	0.0	205.2	557.1	821.0	928.5
95°	0.0	166.2	478.9	733.0	840.5
97.5°	0.0	136.8	420.3	654.8	752.6
100°	0.0	107.5	361.6	586.4	674.4
102.5°	0.0	88.0	312.8	518.0	606.0
105°	0.0	58.6	263.9	459.4	537.5
107.5°	0.0	48.9	224.8	410.5	478.9
110°	0.0	39.1	205.2	351.9	420.3



TEST NUMBER: P1357499

CATALOG NUMBER: 8ASL4-20VHE-3-92765-UNV_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	29.3	185.7	312.8	381.2
115°	0.0	29.3	156.4	283.4	332.3
117.5°	0.0	29.3	136.8	254.1	303.0
120°	0.0	19.5	127.1	224.8	273.7
122.5°	0.0	19.5	107.5	205.2	244.3
125°	0.0	19.5	97.7	185.7	215.0
127.5°	0.0	9.8	88.0	166.2	195.5
130°	0.0	9.8	78.2	146.6	175.9
132.5°	0.0	9.8	68.4	136.8	166.2
135°	0.0	0.0	58.6	117.3	146.6
137.5°	0.0	0.0	48.9	107.5	127.1
140°	0.0	0.0	39.1	88.0	117.3
142.5°	0.0	0.0	29.3	78.2	97.7
145°	0.0	0.0	29.3	68.4	78.2
147.5°	0.0	0.0	19.5	48.9	68.4
150°	0.0	0.0	9.8	39.1	48.9
152.5°	0.0	0.0	0.0	29.3	39.1
155°	0.0	0.0	0.0	19.5	29.3
157.5°	0.0	0.0	0.0	0.0	9.8
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: P1357499
 CATALOG NUMBER: 8ASL4-20VHE-3-92765-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	19.58	21.12	20.05	21.58	22.06	21.65	23.19	22.12	23.65	24.13
	3H	21.08	22.48	21.56	22.95	23.47	24.13	25.54	24.62	26.00	26.53
	4H	21.56	22.89	22.06	23.37	23.91	25.35	26.68	25.85	27.16	27.70
	6H	21.83	23.07	22.35	23.57	24.12	26.63	27.87	27.14	28.36	28.92
	8H	21.89	23.07	22.41	23.59	24.15	27.30	28.49	27.82	29.01	29.56
	12H	21.90	23.04	22.43	23.55	24.14	28.04	29.18	28.58	29.70	30.29
4H	2H	20.47	21.80	20.97	22.28	22.82	22.08	23.42	22.59	23.90	24.44
	3H	22.20	23.34	22.72	23.86	24.42	24.79	25.93	25.31	26.45	27.01
	4H	22.81	23.84	23.34	24.38	24.97	26.18	27.21	26.71	27.75	28.34
	6H	23.20	24.12	23.76	24.68	25.29	27.65	28.56	28.20	29.13	29.73
	8H	23.30	24.16	23.86	24.72	25.34	28.42	29.29	28.98	29.85	30.47
	12H	23.34	24.13	23.92	24.72	25.34	29.29	30.08	29.88	30.67	31.29
8H	4H	23.50	24.36	24.06	24.92	25.54	26.39	27.25	26.95	27.82	28.43
	6H	24.08	24.81	24.67	25.41	26.04	28.03	28.76	28.62	29.37	29.99
	8H	24.26	24.92	24.86	25.53	26.17	28.95	29.61	29.55	30.22	30.86
	12H	24.37	24.96	24.98	25.57	26.27	30.00	30.59	30.61	31.20	31.90
12H	4H	23.70	24.48	24.28	25.07	25.69	26.40	27.18	26.98	27.77	28.40
	6H	24.38	25.04	24.98	25.65	26.29	28.07	28.73	28.67	29.34	29.98
	8H	24.66	25.25	25.26	25.85	26.55	29.05	29.64	29.66	30.24	30.95