

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: P1357498

Luminaire Tested: 8ASL4-20VHE-3-92765-UNV\_2700K

Issue Date: 2/17/2026

**Test Information**

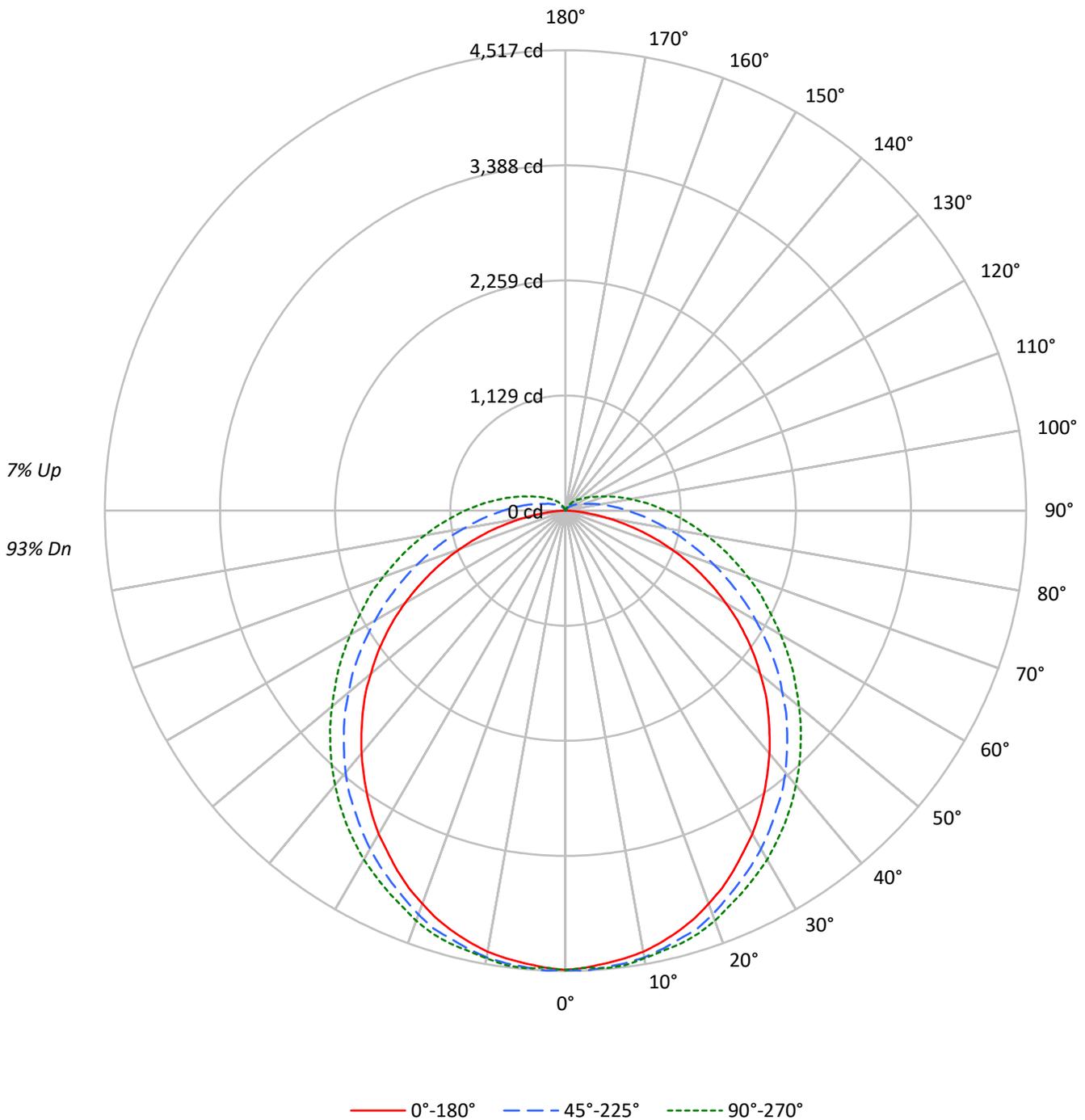
Test Method: LM-79-2019  
Report Number: P1357498  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2511-597-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/17/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: FAIL-SAFE  
Catalog Number: 8ASL4-20VHE-3-92765-UNV\_2700K  
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15325.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 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

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### Luminous Intensity Polar Plot





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**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°	18241	18241	18241
5°	18100	17912	17824
10°	18019	17578	17373
15°	17841	17159	16991
20°	17593	16757	16560
25°	17302	16249	16070
30°	16994	15809	15655
35°	16607	15310	15194
40°	16258	14854	14708
45°	15882	14300	14220
50°	15453	13704	13713
55°	14993	13137	13257
60°	14389	12472	12795
65°	13617	11835	12411
70°	12630	11207	12110
75°	11178	10639	11904
80°	8947	10230	11817
85°	5681	10185	11992

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15882 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	2.8
10°-20°	1227.2	8.0
20°-30°	1855.4	12.1
30°-40°	2246.6	14.7
40°-50°	2359.6	15.4
50°-60°	2201.4	14.4
60°-70°	1819.3	11.9
70°-80°	1310.0	8.5
80°-90°	814.0	5.3
90°-100°	477.0	3.1
100°-110°	272.8	1.8
110°-120°	154.1	1.0
120°-130°	88.7	0.6
130°-140°	47.8	0.3
140°-150°	20.1	0.1
150°-160°	3.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3510.0	22.9
0°-40°	5756.6	37.6
0°-60°	10317.6	67.3
0°-90°	14260.9	93.1
90°-120°	903.9	5.9
90°-150°	1060.4	6.9
90°-180°	1064.0	6.9
0°-180°	15325.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4507	4507	4507	4507	4507	
5°	4460	4498	4498	4498	4507	424
15°	4273	4329	4348	4376	4395	1205
25°	3898	3964	4029	4086	4123	1796
35°	3392	3486	3598	3701	3748	2123
45°	2811	2914	3074	3205	3261	2169
55°	2165	2286	2474	2652	2718	1934
65°	1462	1602	1846	2080	2165	1447
75°	750	937	1265	1537	1649	793
85°	141	422	796	1078	1181	172
90°	0	253	609	872	984	6
95°	0	159	459	703	806	0
105°	0	56	253	440	515	0
115°	0	28	150	272	319	0
125°	0	19	94	178	206	0
135°	0	0	56	112	141	0
145°	0	0	28	66	75	0
155°	0	0	0	19	28	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°	4507.3	4507.3	4507.3	4507.3	4507.3
2.5°	4488.5	4516.7	4516.7	4488.5	4488.5
5°	4460.4	4497.9	4497.9	4497.9	4507.3
7.5°	4432.3	4479.2	4479.2	4479.2	4497.9
10°	4394.8	4441.7	4451.1	4451.1	4460.4
12.5°	4338.6	4394.8	4404.2	4413.6	4423.0
15°	4273.0	4329.2	4348.0	4376.1	4394.8
17.5°	4198.1	4263.7	4301.1	4329.2	4348.0
20°	4104.3	4169.9	4216.8	4254.3	4282.4
22.5°	4010.6	4066.9	4123.1	4169.9	4198.1
25°	3898.2	3963.8	4029.4	4085.6	4123.1
27.5°	3776.4	3851.3	3935.7	4001.3	4038.8
30°	3663.9	3738.9	3832.6	3916.9	3954.4
32.5°	3532.7	3617.1	3720.2	3804.5	3851.3
35°	3392.2	3485.9	3598.3	3701.4	3748.3
37.5°	3251.6	3345.3	3485.9	3589.0	3635.8
40°	3111.1	3204.8	3354.7	3467.1	3514.0
42.5°	2961.1	3054.8	3214.1	3336.0	3392.2
45°	2811.2	2914.3	3073.6	3204.8	3261.0
47.5°	2661.3	2764.3	2933.0	3073.6	3129.8
50°	2492.6	2605.0	2773.7	2933.0	2989.2
52.5°	2333.3	2445.7	2633.2	2792.5	2848.7
55°	2164.6	2286.4	2473.9	2651.9	2717.5
57.5°	1996.0	2117.8	2314.6	2502.0	2576.9
60°	1817.9	1949.1	2155.3	2352.0	2436.4
62.5°	1639.9	1780.4	2005.3	2211.5	2295.8
65°	1461.8	1602.4	1846.0	2080.3	2164.6
67.5°	1283.8	1433.7	1696.1	1939.7	2042.8
70°	1105.7	1265.0	1546.2	1799.2	1902.2
72.5°	927.7	1096.4	1405.6	1668.0	1771.1
75°	749.7	937.1	1265.0	1536.8	1649.2
77.5°	571.6	787.1	1143.2	1415.0	1527.4
80°	412.3	655.9	1012.0	1293.2	1405.6
82.5°	262.4	524.8	899.6	1180.7	1293.2
85°	140.6	421.7	796.5	1077.6	1180.7
87.5°	46.9	328.0	693.4	974.5	1077.6
90°	0.0	253.0	609.1	871.5	983.9
92.5°	0.0	196.8	534.1	787.1	890.2
95°	0.0	159.3	459.2	702.8	805.9
97.5°	0.0	131.2	402.9	627.8	721.5
100°	0.0	103.1	346.7	562.2	646.6
102.5°	0.0	84.3	299.9	496.6	581.0
105°	0.0	56.2	253.0	440.4	515.4
107.5°	0.0	46.9	215.5	393.6	459.2
110°	0.0	37.5	196.8	337.3	402.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	28.1	178.0	299.9	365.5
115°	0.0	28.1	149.9	271.7	318.6
117.5°	0.0	28.1	131.2	243.6	290.5
120°	0.0	18.7	121.8	215.5	262.4
122.5°	0.0	18.7	103.1	196.8	234.3
125°	0.0	18.7	93.7	178.0	206.2
127.5°	0.0	9.4	84.3	159.3	187.4
130°	0.0	9.4	75.0	140.6	168.7
132.5°	0.0	9.4	65.6	131.2	159.3
135°	0.0	0.0	56.2	112.4	140.6
137.5°	0.0	0.0	46.9	103.1	121.8
140°	0.0	0.0	37.5	84.3	112.4
142.5°	0.0	0.0	28.1	75.0	93.7
145°	0.0	0.0	28.1	65.6	75.0
147.5°	0.0	0.0	18.7	46.9	65.6
150°	0.0	0.0	9.4	37.5	46.9
152.5°	0.0	0.0	0.0	28.1	37.5
155°	0.0	0.0	0.0	18.7	28.1
157.5°	0.0	0.0	0.0	0.0	9.4
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



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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	19.44	20.98	19.91	21.43	21.91	21.51	23.05	21.97	23.50	23.98
	3H	20.93	22.34	21.41	22.80	23.33	23.99	25.39	24.47	25.86	26.38
	4H	21.41	22.74	21.91	23.23	23.76	25.20	26.53	25.70	27.02	27.55
	6H	21.69	22.93	22.20	23.42	23.98	26.48	27.72	27.00	28.22	28.77
	8H	21.74	22.93	22.27	23.45	24.01	27.15	28.34	27.68	28.86	29.42
	12H	21.75	22.89	22.29	23.41	24.00	27.90	29.04	28.43	29.55	30.14
4H	2H	20.32	21.65	20.82	22.13	22.67	21.94	23.27	22.44	23.75	24.29
	3H	22.06	23.19	22.57	23.72	24.28	24.65	25.78	25.16	26.31	26.87
	4H	22.66	23.70	23.19	24.23	24.83	26.03	27.07	26.56	27.60	28.20
	6H	23.06	23.97	23.61	24.54	25.14	27.50	28.42	28.06	28.98	29.59
	8H	23.15	24.01	23.71	24.58	25.20	28.28	29.14	28.84	29.70	30.32
	12H	23.20	23.98	23.78	24.57	25.19	29.15	29.93	29.73	30.52	31.15
8H	4H	23.35	24.21	23.91	24.78	25.40	26.24	27.11	26.80	27.67	28.29
	6H	23.93	24.66	24.52	25.27	25.89	27.88	28.62	28.48	29.22	29.85
	8H	24.11	24.77	24.72	25.39	26.02	28.80	29.46	29.40	30.08	30.71
	12H	24.23	24.82	24.83	25.42	26.12	29.86	30.45	30.46	31.05	31.75
12H	4H	23.55	24.33	24.13	24.92	25.55	26.25	27.04	26.83	27.63	28.25
	6H	24.23	24.89	24.83	25.51	26.14	27.92	28.58	28.53	29.20	29.83
	8H	24.51	25.10	25.12	25.70	26.41	28.91	29.50	29.51	30.10	30.80