

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: P1357488

Luminaire Tested: 8ASL4-20HE-2-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1357488
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_6500K
Description: 8FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

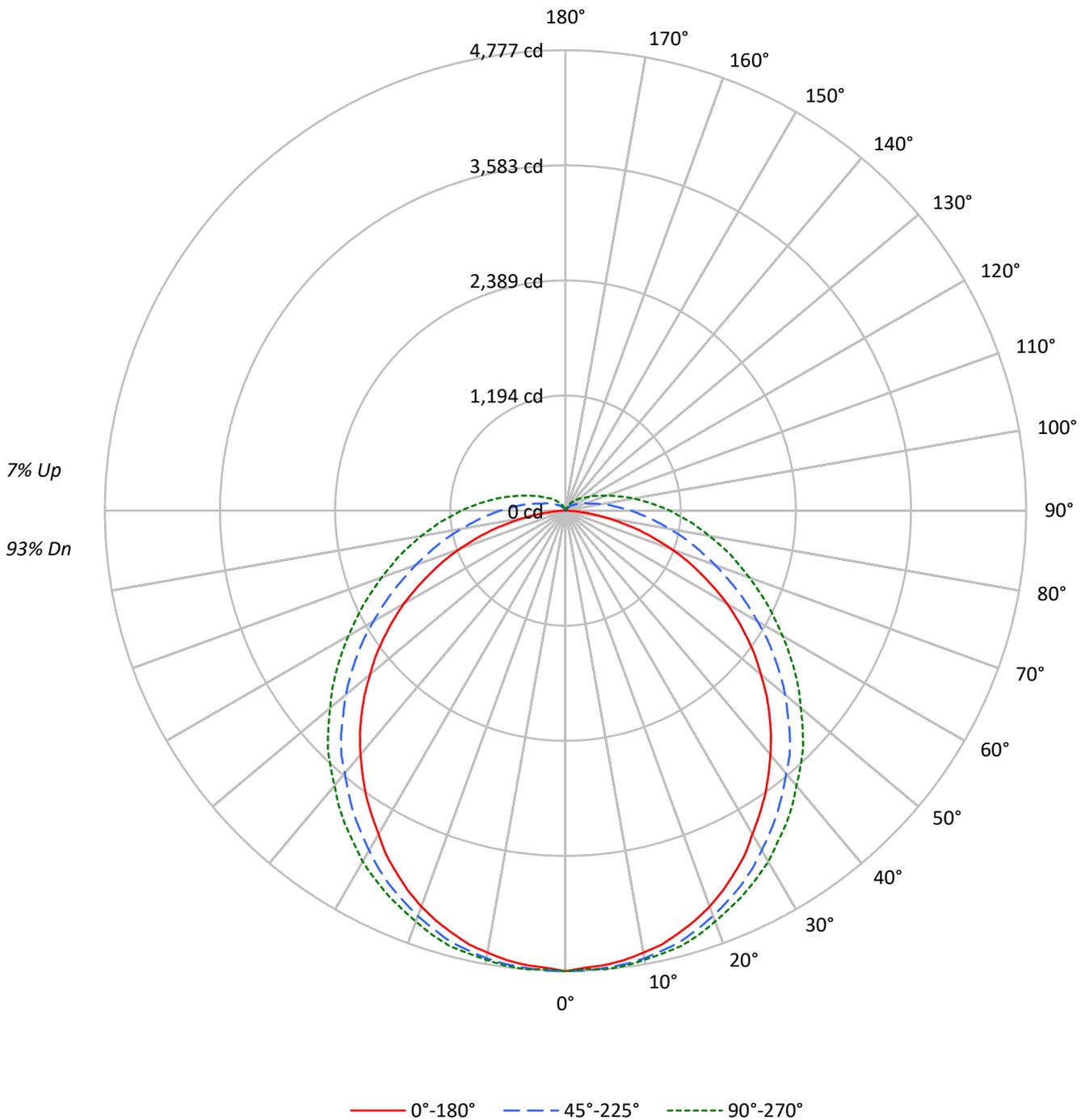
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16401.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

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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	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°	19334	19334	19334
5°	19203	18965	18892
10°	19095	18629	18432
15°	18943	18261	18063
20°	18739	17791	17545
25°	18404	17327	17097
30°	17978	16794	16653
35°	17652	16300	16138
40°	17272	15765	15594
45°	16891	15307	15199
50°	16392	14696	14611
55°	15922	14040	14145
60°	15339	13301	13649
65°	14415	12618	13265
70°	13386	11979	12913
75°	11871	11498	12796
80°	9454	11086	12756
85°	6069	11143	13122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16891 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.1	2.8
10°-20°	1302.3	7.9
20°-30°	1973.4	12.0
30°-40°	2386.8	14.6
40°-50°	2516.2	15.3
50°-60°	2348.4	14.3
60°-70°	1938.9	11.8
70°-80°	1406.5	8.6
80°-90°	888.7	5.4
90°-100°	530.5	3.2
100°-110°	304.1	1.9
110°-120°	172.7	1.1
120°-130°	98.5	0.6
130°-140°	53.3	0.3
140°-150°	23.4	0.1
150°-160°	4.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3728.8	22.7
0°-40°	6115.6	37.3
0°-60°	10980.2	66.9
0°-90°	15214.3	92.8
90°-120°	1007.2	6.1
90°-150°	1182.4	7.2
90°-180°	1187.0	7.2
0°-180°	16401.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4777	4777	4777	4777	4777	
5°	4732	4777	4762	4762	4777	449
15°	4537	4597	4627	4642	4672	1280
25°	4146	4207	4297	4357	4387	1910
35°	3606	3696	3831	3936	3981	2253
45°	2990	3110	3290	3425	3485	2305
55°	2299	2434	2644	2824	2900	2054
65°	1547	1713	1968	2208	2314	1537
75°	796	1007	1367	1653	1773	837
85°	150	466	871	1172	1292	184
90°	0	285	676	962	1082	6
95°	0	180	511	781	886	0
105°	0	60	285	496	571	0
115°	0	30	165	300	361	0
125°	0	15	105	195	225	0
135°	0	0	60	120	150	0
145°	0	0	30	75	90	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4777.4	4777.4	4777.4	4777.4	4777.4
2.5°	4747.4	4792.5	4777.4	4762.4	4762.4
5°	4732.4	4777.4	4762.4	4762.4	4777.4
7.5°	4702.3	4747.4	4747.4	4747.4	4762.4
10°	4657.3	4717.3	4717.3	4717.3	4732.4
12.5°	4612.2	4657.3	4672.3	4687.3	4702.3
15°	4537.1	4597.2	4627.2	4642.2	4672.3
17.5°	4461.9	4507.0	4552.1	4597.2	4612.2
20°	4371.8	4431.9	4477.0	4522.0	4537.1
22.5°	4266.6	4326.7	4386.8	4431.9	4461.9
25°	4146.5	4206.6	4296.7	4356.8	4386.8
27.5°	4026.3	4086.4	4191.5	4266.6	4296.7
30°	3876.0	3966.2	4071.3	4161.5	4206.6
32.5°	3740.8	3831.0	3951.2	4056.3	4086.4
35°	3605.6	3695.8	3831.0	3936.1	3981.2
37.5°	3455.4	3560.5	3695.8	3815.9	3861.0
40°	3305.1	3410.3	3560.5	3695.8	3725.8
42.5°	3154.9	3260.1	3440.4	3560.5	3605.6
45°	2989.7	3109.8	3290.1	3425.3	3485.4
47.5°	2824.4	2944.6	3124.9	3275.1	3335.2
50°	2644.1	2779.3	2974.6	3124.9	3185.0
52.5°	2478.9	2614.1	2809.4	2974.6	3049.8
55°	2298.6	2433.8	2644.1	2824.4	2899.5
57.5°	2118.3	2253.5	2478.9	2674.2	2749.3
60°	1938.0	2073.2	2298.6	2523.9	2599.0
62.5°	1742.7	1892.9	2133.3	2358.7	2448.8
65°	1547.4	1712.7	1968.1	2208.4	2313.6
67.5°	1367.1	1532.4	1802.8	2073.2	2163.4
70°	1171.8	1352.1	1652.6	1923.0	2028.2
72.5°	976.5	1171.8	1502.3	1787.8	1892.9
75°	796.2	1006.6	1367.1	1652.6	1772.8
77.5°	600.9	856.3	1231.9	1532.4	1637.6
80°	435.7	706.1	1096.7	1412.2	1517.4
82.5°	285.4	570.9	976.5	1292.0	1397.2
85°	150.2	465.7	871.4	1171.8	1292.0
87.5°	45.1	360.6	766.2	1066.7	1171.8
90°	0.0	285.4	676.1	961.5	1081.7
92.5°	0.0	225.4	585.9	871.4	976.5
95°	0.0	180.3	510.8	781.2	886.4
97.5°	0.0	150.2	450.7	706.1	796.2
100°	0.0	120.2	390.6	631.0	721.1
102.5°	0.0	90.1	330.5	555.9	646.0
105°	0.0	60.1	285.4	495.8	570.9
107.5°	0.0	45.1	240.4	435.7	510.8
110°	0.0	45.1	225.4	375.6	450.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	30.0	195.3	345.5	405.6
115°	0.0	30.0	165.3	300.5	360.6
117.5°	0.0	30.0	150.2	270.4	330.5
120°	0.0	30.0	135.2	240.4	285.4
122.5°	0.0	15.0	120.2	210.3	255.4
125°	0.0	15.0	105.2	195.3	225.4
127.5°	0.0	15.0	90.1	180.3	210.3
130°	0.0	15.0	90.1	165.3	195.3
132.5°	0.0	0.0	75.1	150.2	180.3
135°	0.0	0.0	60.1	120.2	150.2
137.5°	0.0	0.0	60.1	105.2	135.2
140°	0.0	0.0	45.1	105.2	120.2
142.5°	0.0	0.0	30.0	90.1	105.2
145°	0.0	0.0	30.0	75.1	90.1
147.5°	0.0	0.0	15.0	60.1	75.1
150°	0.0	0.0	15.0	45.1	60.1
152.5°	0.0	0.0	0.0	30.0	45.1
155°	0.0	0.0	0.0	15.0	30.0
157.5°	0.0	0.0	0.0	0.0	15.0
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	19.62	21.15	20.09	21.61	22.10	21.72	23.26	22.19	23.72	24.21
	3H	21.12	22.52	21.60	22.99	23.52	24.19	25.59	24.68	26.06	26.59
	4H	21.60	22.93	22.10	23.41	23.96	25.42	26.74	25.92	27.23	27.78
	6H	21.87	23.11	22.39	23.61	24.17	26.72	27.95	27.23	28.45	29.01
	8H	21.93	23.11	22.46	23.64	24.20	27.40	28.58	27.93	29.11	29.67
	12H	21.94	23.08	22.48	23.60	24.19	28.16	29.30	28.70	29.82	30.42
4H	2H	20.51	21.83	21.01	22.32	22.87	22.15	23.48	22.66	23.96	24.51
	3H	22.25	23.38	22.77	23.91	24.48	24.85	25.98	25.37	26.51	27.08
	4H	22.86	23.89	23.40	24.43	25.03	26.25	27.29	26.79	27.83	28.43
	6H	23.26	24.17	23.82	24.74	25.35	27.75	28.66	28.30	29.23	29.84
	8H	23.35	24.22	23.92	24.78	25.41	28.54	29.40	29.10	29.96	30.59
	12H	23.40	24.18	23.99	24.78	25.41	29.43	30.21	30.01	30.80	31.44
8H	4H	23.56	24.42	24.13	24.99	25.61	26.47	27.33	27.03	27.90	28.52
	6H	24.15	24.88	24.74	25.49	26.12	28.14	28.87	28.73	29.48	30.11
	8H	24.34	25.00	24.94	25.61	26.26	29.07	29.73	29.68	30.35	30.99
	12H	24.46	25.05	25.07	25.65	26.36	30.15	30.74	30.76	31.35	32.06
12H	4H	23.77	24.55	24.35	25.14	25.78	26.48	27.26	27.06	27.85	28.48
	6H	24.46	25.12	25.07	25.74	26.38	28.18	28.84	28.78	29.46	30.10
	8H	24.75	25.34	25.36	25.94	26.65	29.18	29.77	29.79	30.38	31.09