

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: P1356871

Luminaire Tested: 2ASL4-20HE-2-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356871
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: 2ASL4-20HE-2-92765-UNV_2700K
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 2 ROW
Light Source: -
Ballast/Driver: -

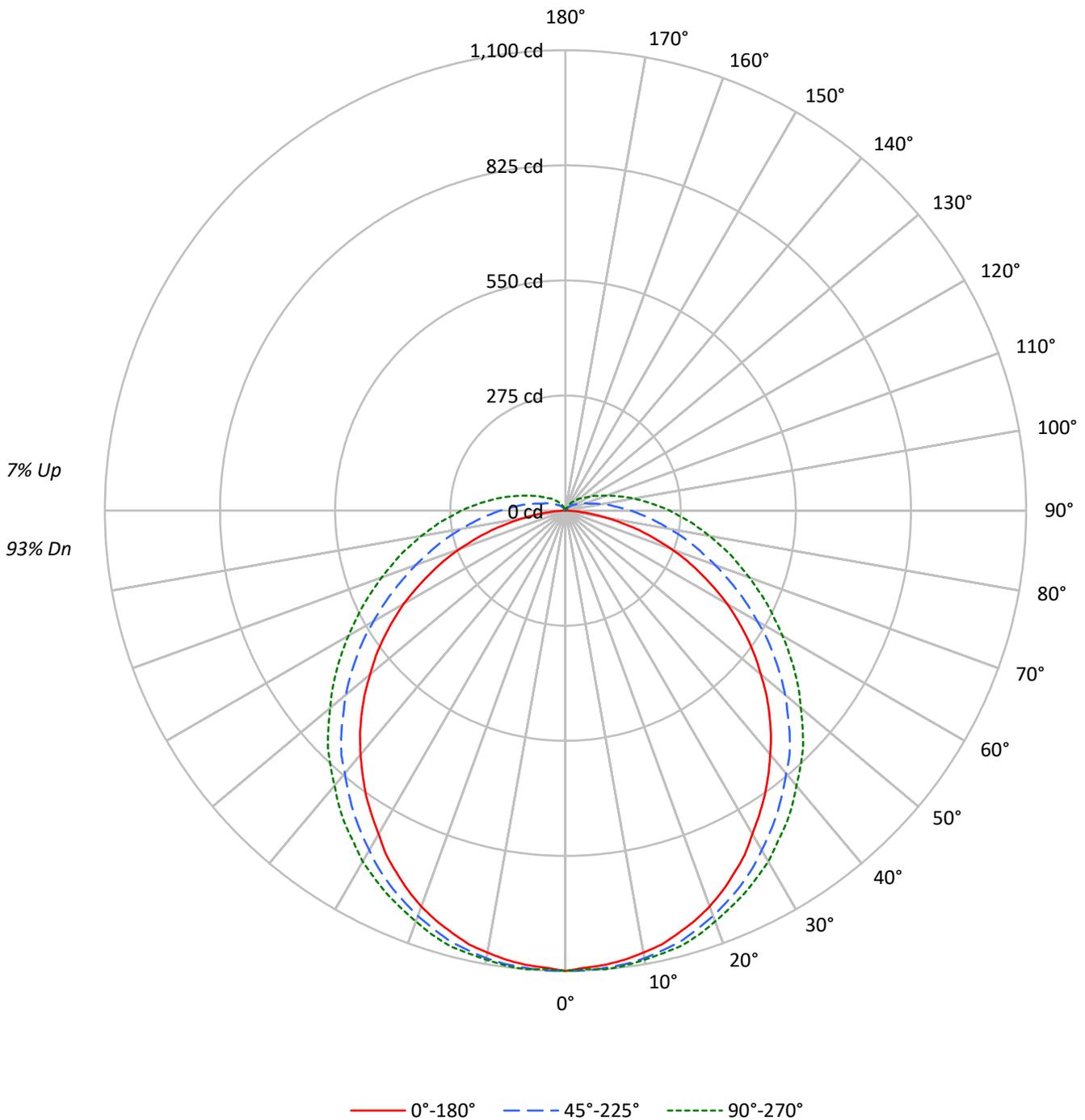
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3776.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 37.4
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				
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°	17946	17946	17946
5°	17762	17562	17535
10°	17601	17211	17108
15°	17400	16830	16766
20°	17147	16359	16285
25°	16774	15895	15870
30°	16317	15368	15458
35°	15946	14878	14979
40°	15521	14350	14475
45°	15088	13892	14106
50°	14541	13292	13562
55°	14001	12653	13130
60°	13344	11933	12669
65°	12361	11259	12314
70°	11245	10619	11984
75°	9658	10107	11876
80°	7258	9628	11839
85°	4044	9504	12182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15088 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	2.8
10°-20°	299.8	7.9
20°-30°	454.3	12.0
30°-40°	549.5	14.6
40°-50°	579.3	15.3
50°-60°	540.7	14.3
60°-70°	446.4	11.8
70°-80°	323.8	8.6
80°-90°	204.6	5.4
90°-100°	122.1	3.2
100°-110°	70.0	1.9
110°-120°	39.8	1.1
120°-130°	22.7	0.6
130°-140°	12.3	0.3
140°-150°	5.4	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	858.5	22.7
0°-40°	1408.0	37.3
0°-60°	2528.0	66.9
0°-90°	3502.8	92.8
90°-120°	231.9	6.1
90°-150°	272.3	7.2
90°-180°	273.0	7.2
0°-180°	3776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1100	1100	1100	1100	1100	
5°	1090	1100	1096	1096	1100	103
15°	1045	1058	1065	1069	1076	295
25°	955	968	989	1003	1010	440
35°	830	851	882	906	917	519
45°	688	716	758	789	802	531
55°	529	560	609	650	668	473
65°	356	394	453	508	533	354
75°	183	232	315	380	408	193
85°	35	107	201	270	298	42
90°	0	66	156	221	249	1
95°	0	42	118	180	204	0
105°	0	14	66	114	131	0
115°	0	7	38	69	83	0
125°	0	4	24	45	52	0
135°	0	0	14	28	35	0
145°	0	0	7	17	21	0
155°	0	0	0	4	7	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°	1099.9	1099.9	1099.9	1099.9	1099.9
2.5°	1093.0	1103.4	1099.9	1096.5	1096.5
5°	1089.5	1099.9	1096.5	1096.5	1099.9
7.5°	1082.6	1093.0	1093.0	1093.0	1096.5
10°	1072.2	1086.1	1086.1	1086.1	1089.5
12.5°	1061.9	1072.2	1075.7	1079.2	1082.6
15°	1044.6	1058.4	1065.3	1068.8	1075.7
17.5°	1027.3	1037.7	1048.0	1058.4	1061.9
20°	1006.5	1020.4	1030.7	1041.1	1044.6
22.5°	982.3	996.1	1010.0	1020.4	1027.3
25°	954.6	968.5	989.2	1003.1	1010.0
27.5°	927.0	940.8	965.0	982.3	989.2
30°	892.4	913.1	937.3	958.1	968.5
32.5°	861.3	882.0	909.7	933.9	940.8
35°	830.1	850.9	882.0	906.2	916.6
37.5°	795.5	819.7	850.9	878.5	888.9
40°	760.9	785.2	819.7	850.9	857.8
42.5°	726.4	750.6	792.1	819.7	830.1
45°	688.3	716.0	757.5	788.6	802.4
47.5°	650.3	677.9	719.4	754.0	767.9
50°	608.8	639.9	684.8	719.4	733.3
52.5°	570.7	601.8	646.8	684.8	702.1
55°	529.2	560.3	608.8	650.3	667.6
57.5°	487.7	518.8	570.7	615.7	633.0
60°	446.2	477.3	529.2	581.1	598.4
62.5°	401.2	435.8	491.2	543.0	563.8
65°	356.3	394.3	453.1	508.4	532.7
67.5°	314.8	352.8	415.1	477.3	498.1
70°	269.8	311.3	380.5	442.7	466.9
72.5°	224.8	269.8	345.9	411.6	435.8
75°	183.3	231.7	314.8	380.5	408.1
77.5°	138.4	197.2	283.6	352.8	377.0
80°	100.3	162.6	252.5	325.1	349.3
82.5°	65.7	131.4	224.8	297.5	321.7
85°	34.6	107.2	200.6	269.8	297.5
87.5°	10.4	83.0	176.4	245.6	269.8
90°	0.0	65.7	155.6	221.4	249.0
92.5°	0.0	51.9	134.9	200.6	224.8
95°	0.0	41.5	117.6	179.9	204.1
97.5°	0.0	34.6	103.8	162.6	183.3
100°	0.0	27.7	89.9	145.3	166.0
102.5°	0.0	20.8	76.1	128.0	148.7
105°	0.0	13.8	65.7	114.1	131.4
107.5°	0.0	10.4	55.3	100.3	117.6
110°	0.0	10.4	51.9	86.5	103.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	6.9	45.0	79.6	93.4
115°	0.0	6.9	38.0	69.2	83.0
117.5°	0.0	6.9	34.6	62.3	76.1
120°	0.0	6.9	31.1	55.3	65.7
122.5°	0.0	3.5	27.7	48.4	58.8
125°	0.0	3.5	24.2	45.0	51.9
127.5°	0.0	3.5	20.8	41.5	48.4
130°	0.0	3.5	20.8	38.0	45.0
132.5°	0.0	0.0	17.3	34.6	41.5
135°	0.0	0.0	13.8	27.7	34.6
137.5°	0.0	0.0	13.8	24.2	31.1
140°	0.0	0.0	10.4	24.2	27.7
142.5°	0.0	0.0	6.9	20.8	24.2
145°	0.0	0.0	6.9	17.3	20.8
147.5°	0.0	0.0	3.5	13.8	17.3
150°	0.0	0.0	3.5	10.4	13.8
152.5°	0.0	0.0	0.0	6.9	10.4
155°	0.0	0.0	0.0	3.5	6.9
157.5°	0.0	0.0	0.0	0.0	3.5
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	19.31	20.85	19.79	21.31	21.80	21.29	22.83	21.76	23.29	23.78
	3H	20.82	22.22	21.30	22.69	23.22	23.70	25.10	24.19	25.57	26.11
	4H	21.30	22.63	21.80	23.11	23.66	24.88	26.21	25.39	26.70	27.24
	6H	21.57	22.81	22.09	23.31	23.87	26.11	27.34	26.62	27.84	28.40
	8H	21.63	22.81	22.16	23.34	23.90	26.73	27.91	27.26	28.44	29.00
	12H	21.64	22.78	22.18	23.30	23.90	27.39	28.53	27.93	29.05	29.65
4H	2H	20.18	21.50	20.68	21.99	22.54	21.72	23.05	22.23	23.54	24.08
	3H	21.92	23.05	22.44	23.58	24.15	24.37	25.50	24.89	26.03	26.60
	4H	22.53	23.57	23.07	24.11	24.71	25.72	26.76	26.26	27.30	27.90
	6H	22.93	23.85	23.49	24.41	25.03	27.14	28.06	27.70	28.63	29.24
	8H	23.03	23.89	23.59	24.46	25.08	27.87	28.73	28.44	29.30	29.93
	12H	23.08	23.86	23.66	24.46	25.09	28.67	29.45	29.25	30.04	30.67
8H	4H	23.21	24.07	23.77	24.63	25.26	25.95	26.81	26.51	27.38	28.00
	6H	23.79	24.52	24.39	25.13	25.76	27.54	28.28	28.14	28.88	29.52
	8H	23.98	24.64	24.59	25.26	25.90	28.42	29.08	29.03	29.70	30.34
	12H	24.10	24.69	24.71	25.30	26.01	29.40	29.99	30.01	30.59	31.30
12H	4H	23.40	24.18	23.98	24.77	25.41	25.96	26.74	26.54	27.34	27.97
	6H	24.08	24.75	24.69	25.36	26.01	27.58	28.25	28.19	28.86	29.51
	8H	24.37	24.96	24.98	25.57	26.28	28.53	29.12	29.14	29.73	30.44