

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: P1356886

Luminaire Tested: 2ASL4-20VHE-3-92765-UNV_2700K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356886
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: 2ASL4-20VHE-3-92765-UNV_2700K
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 2700K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

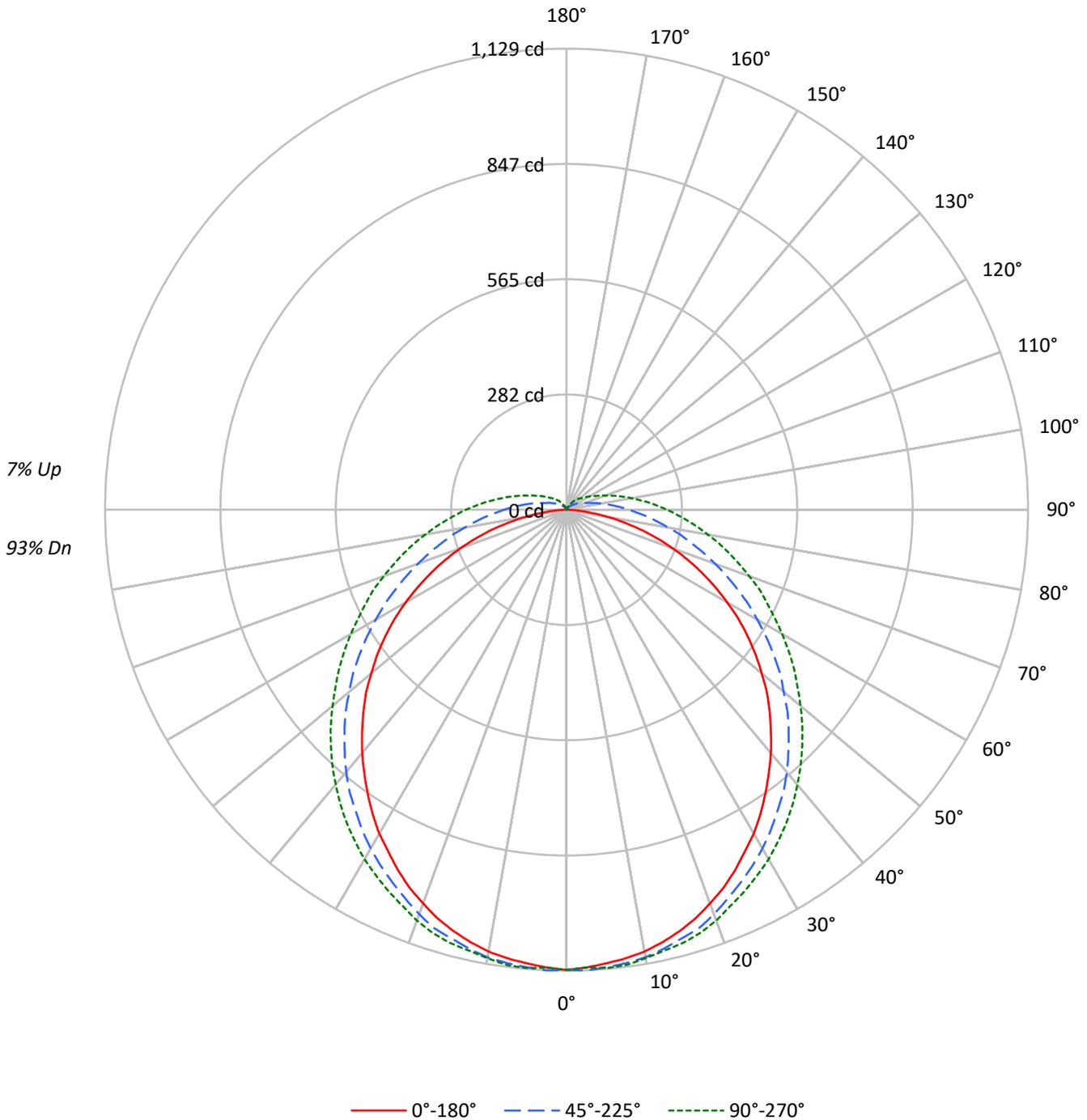
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3831.0 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1.98' x H: 0.1')
CIE Type: Direct

Input Watts (W): 36.5
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	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°	18383	18383	18383
5°	18178	18009	17962
10°	18034	17632	17508
15°	17793	17171	17123
20°	17480	16730	16689
25°	17123	16185	16195
30°	16747	15709	15777
35°	16290	15173	15313
40°	15864	14681	14822
45°	15406	14090	14331
50°	14883	13459	13821
55°	14316	12852	13361
60°	13589	12149	12896
65°	12676	11468	12508
70°	11520	10786	12205
75°	9874	10151	11998
80°	7460	9647	11910
85°	4103	9433	12087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15406 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	2.8
10°-20°	306.8	8.0
20°-30°	463.8	12.1
30°-40°	561.6	14.7
40°-50°	589.9	15.4
50°-60°	550.3	14.4
60°-70°	454.8	11.9
70°-80°	327.5	8.5
80°-90°	203.5	5.3
90°-100°	119.2	3.1
100°-110°	68.2	1.8
110°-120°	38.5	1.0
120°-130°	22.2	0.6
130°-140°	11.9	0.3
140°-150°	5.0	0.1
150°-160°	0.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	877.4	22.9
0°-40°	1439.0	37.6
0°-60°	2579.2	67.3
0°-90°	3565.0	93.1
90°-120°	226.0	5.9
90°-150°	265.1	6.9
90°-180°	266.0	6.9
0°-180°	3831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1115	1124	1124	1124	1127	106
15°	1068	1082	1087	1094	1099	301
25°	974	991	1007	1021	1031	449
35°	848	871	900	925	937	531
45°	703	728	768	801	815	542
55°	541	572	618	663	679	484
65°	365	401	462	520	541	362
75°	187	234	316	384	412	198
85°	35	105	199	269	295	43
90°	0	63	152	218	246	2
95°	0	40	115	176	202	0
105°	0	14	63	110	129	0
115°	0	7	38	68	80	0
125°	0	5	23	44	52	0
135°	0	0	14	28	35	0
145°	0	0	7	16	19	0
155°	0	0	0	5	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°	1126.7	1126.7	1126.7	1126.7	1126.7
2.5°	1122.1	1129.1	1129.1	1122.1	1122.1
5°	1115.0	1124.4	1124.4	1124.4	1126.7
7.5°	1108.0	1119.7	1119.7	1119.7	1124.4
10°	1098.6	1110.4	1112.7	1112.7	1115.0
12.5°	1084.6	1098.6	1101.0	1103.3	1105.7
15°	1068.2	1082.2	1086.9	1094.0	1098.6
17.5°	1049.4	1065.8	1075.2	1082.2	1086.9
20°	1026.0	1042.4	1054.1	1063.5	1070.5
22.5°	1002.6	1016.7	1030.7	1042.4	1049.4
25°	974.5	990.9	1007.3	1021.3	1030.7
27.5°	944.0	962.8	983.9	1000.3	1009.6
30°	915.9	934.7	958.1	979.2	988.5
32.5°	883.1	904.2	930.0	951.1	962.8
35°	848.0	871.4	899.5	925.3	937.0
37.5°	812.9	836.3	871.4	897.2	908.9
40°	777.7	801.1	838.6	866.7	878.4
42.5°	740.2	763.7	803.5	833.9	848.0
45°	702.8	728.5	768.3	801.1	815.2
47.5°	665.3	691.0	733.2	768.3	782.4
50°	623.1	651.2	693.4	733.2	747.3
52.5°	583.3	611.4	658.2	698.1	712.1
55°	541.1	571.6	618.4	662.9	679.3
57.5°	499.0	529.4	578.6	625.5	644.2
60°	454.4	487.2	538.8	588.0	609.1
62.5°	409.9	445.1	501.3	552.8	573.9
65°	365.4	400.6	461.5	520.0	541.1
67.5°	320.9	358.4	424.0	484.9	510.7
70°	276.4	316.2	386.5	449.8	475.5
72.5°	231.9	274.1	351.4	417.0	442.7
75°	187.4	234.3	316.2	384.2	412.3
77.5°	142.9	196.8	285.8	353.7	381.8
80°	103.1	164.0	253.0	323.3	351.4
82.5°	65.6	131.2	224.9	295.2	323.3
85°	35.1	105.4	199.1	269.4	295.2
87.5°	11.7	82.0	173.3	243.6	269.4
90°	0.0	63.2	152.3	217.9	246.0
92.5°	0.0	49.2	133.5	196.8	222.5
95°	0.0	39.8	114.8	175.7	201.5
97.5°	0.0	32.8	100.7	156.9	180.4
100°	0.0	25.8	86.7	140.6	161.6
102.5°	0.0	21.1	75.0	124.2	145.2
105°	0.0	14.1	63.2	110.1	128.8
107.5°	0.0	11.7	53.9	98.4	114.8
110°	0.0	9.4	49.2	84.3	100.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.0	44.5	75.0	91.4
115°	0.0	7.0	37.5	67.9	79.6
117.5°	0.0	7.0	32.8	60.9	72.6
120°	0.0	4.7	30.5	53.9	65.6
122.5°	0.0	4.7	25.8	49.2	58.6
125°	0.0	4.7	23.4	44.5	51.5
127.5°	0.0	2.3	21.1	39.8	46.9
130°	0.0	2.3	18.7	35.1	42.2
132.5°	0.0	2.3	16.4	32.8	39.8
135°	0.0	0.0	14.1	28.1	35.1
137.5°	0.0	0.0	11.7	25.8	30.5
140°	0.0	0.0	9.4	21.1	28.1
142.5°	0.0	0.0	7.0	18.7	23.4
145°	0.0	0.0	7.0	16.4	18.7
147.5°	0.0	0.0	4.7	11.7	16.4
150°	0.0	0.0	2.3	9.4	11.7
152.5°	0.0	0.0	0.0	7.0	9.4
155°	0.0	0.0	0.0	4.7	7.0
157.5°	0.0	0.0	0.0	0.0	2.3
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	19.42	20.96	19.89	21.41	21.90	21.36	22.90	21.83	23.36	23.84
	3H	20.92	22.32	21.40	22.79	23.31	23.79	25.19	24.27	25.66	26.18
	4H	21.40	22.73	21.90	23.21	23.75	24.96	26.29	25.46	26.77	27.31
	6H	21.67	22.91	22.19	23.41	23.96	26.16	27.40	26.67	27.89	28.45
	8H	21.73	22.91	22.25	23.43	23.99	26.77	27.96	27.30	28.48	29.04
	12H	21.74	22.88	22.27	23.39	23.98	27.42	28.56	27.95	29.07	29.66
4H	2H	20.28	21.61	20.78	22.09	22.63	21.80	23.13	22.30	23.61	24.15
	3H	22.01	23.15	22.53	23.67	24.24	24.45	25.59	24.97	26.11	26.67
	4H	22.62	23.66	23.15	24.19	24.79	25.79	26.83	26.33	27.37	27.96
	6H	23.02	23.94	23.57	24.50	25.10	27.19	28.11	27.74	28.67	29.27
	8H	23.11	23.98	23.67	24.54	25.16	27.90	28.77	28.46	29.33	29.95
	12H	23.16	23.94	23.74	24.53	25.16	28.68	29.46	29.26	30.05	30.68
8H	4H	23.28	24.15	23.84	24.71	25.33	26.01	26.87	26.57	27.44	28.06
	6H	23.86	24.59	24.45	25.20	25.82	27.58	28.31	28.17	28.91	29.54
	8H	24.04	24.70	24.65	25.32	25.96	28.43	29.10	29.04	29.71	30.35
	12H	24.16	24.75	24.76	25.35	26.06	29.40	29.99	30.00	30.59	31.29
12H	4H	23.47	24.25	24.05	24.84	25.46	26.02	26.80	26.60	27.39	28.02
	6H	24.14	24.80	24.75	25.42	26.06	27.62	28.28	28.22	28.89	29.53
	8H	24.42	25.01	25.03	25.61	26.32	28.54	29.13	29.15	29.74	30.44