

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: P1356891

Luminaire Tested: 2ASL4-20VHE-3-92765-UNV_6500K

Issue Date: 2/17/2026

Test Information

Test Method: LM-79-2019
Report Number: P1356891
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_6500K
Description: 2FT 2000 LUMEN PER FOOT 4ASL LED LUMINAIRE WITH OPL LENS AND 6500K LEDS 3 ROW
Light Source: -
Ballast/Driver: -

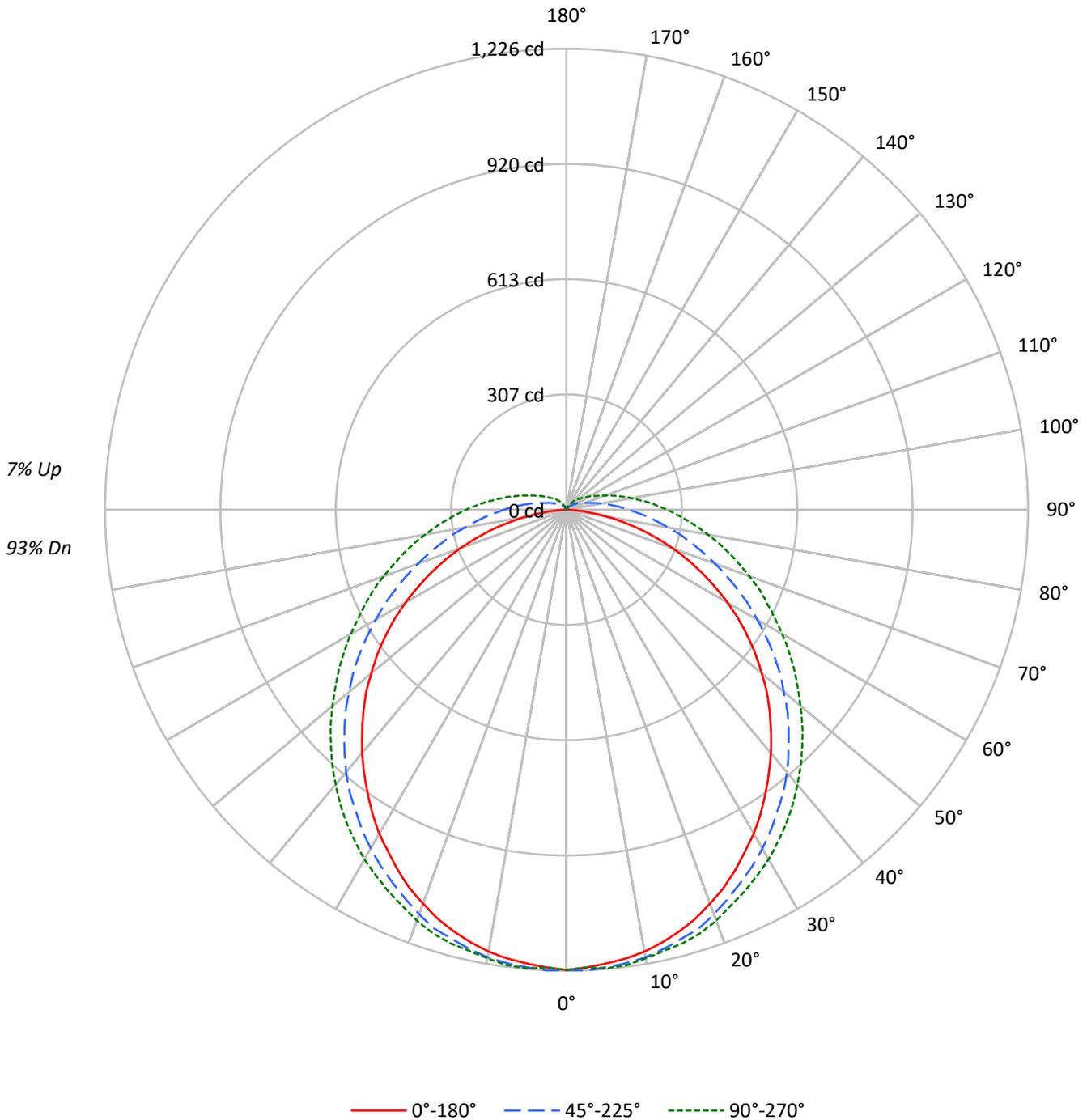
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4161.0 lumens
Efficiency: N/A
Efficacy: 114.0 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°	19967	19967	19967
5°	19745	19561	19510
10°	19588	19150	19017
15°	19325	18652	18599
20°	18986	18171	18126
25°	18598	17579	17591
30°	18189	17062	17137
35°	17693	16481	16631
40°	17230	15946	16100
45°	16732	15304	15566
50°	16165	14618	15011
55°	15549	13960	14511
60°	14761	13195	14005
65°	13769	12454	13585
70°	12512	11716	13257
75°	10722	11028	13031
80°	8097	10478	12933
85°	4465	10248	13127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16732 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.8
10°-20°	333.2	8.0
20°-30°	503.8	12.1
30°-40°	610.0	14.7
40°-50°	640.7	15.4
50°-60°	597.7	14.4
60°-70°	494.0	11.9
70°-80°	355.7	8.5
80°-90°	221.0	5.3
90°-100°	129.5	3.1
100°-110°	74.1	1.8
110°-120°	41.8	1.0
120°-130°	24.1	0.6
130°-140°	13.0	0.3
140°-150°	5.5	0.1
150°-160°	1.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	953.0	22.9
0°-40°	1563.0	37.6
0°-60°	2801.4	67.3
0°-90°	3872.1	93.1
90°-120°	245.4	5.9
90°-150°	287.9	6.9
90°-180°	289.0	6.9
0°-180°	4161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1211	1221	1221	1221	1224	115
15°	1160	1176	1181	1188	1193	327
25°	1058	1076	1094	1109	1120	488
35°	921	946	977	1005	1018	577
45°	763	791	834	870	885	589
55°	588	621	672	720	738	525
65°	397	435	501	565	588	393
75°	204	254	344	417	448	215
85°	38	114	216	293	321	47
90°	0	69	165	237	267	2
95°	0	43	125	191	219	0
105°	0	15	69	120	140	0
115°	0	8	41	74	86	0
125°	0	5	25	48	56	0
135°	0	0	15	30	38	0
145°	0	0	8	18	20	0
155°	0	0	0	5	8	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°	1223.8	1223.8	1223.8	1223.8	1223.8
2.5°	1218.7	1226.4	1226.4	1218.7	1218.7
5°	1211.1	1221.3	1221.3	1221.3	1223.8
7.5°	1203.5	1216.2	1216.2	1216.2	1221.3
10°	1193.3	1206.0	1208.5	1208.5	1211.1
12.5°	1178.0	1193.3	1195.8	1198.4	1200.9
15°	1160.2	1175.5	1180.6	1188.2	1193.3
17.5°	1139.8	1157.7	1167.8	1175.5	1180.6
20°	1114.4	1132.2	1144.9	1155.1	1162.7
22.5°	1089.0	1104.2	1119.5	1132.2	1139.8
25°	1058.4	1076.2	1094.0	1109.3	1119.5
27.5°	1025.4	1045.7	1068.6	1086.4	1096.6
30°	994.8	1015.2	1040.6	1063.5	1073.7
32.5°	959.2	982.1	1010.1	1033.0	1045.7
35°	921.0	946.5	977.0	1005.0	1017.7
37.5°	882.9	908.3	946.5	974.5	987.2
40°	844.7	870.1	910.9	941.4	954.1
42.5°	804.0	829.4	872.7	905.8	921.0
45°	763.3	791.3	834.5	870.1	885.4
47.5°	722.6	750.6	796.4	834.5	849.8
50°	676.8	707.3	753.1	796.4	811.6
52.5°	633.5	664.1	714.9	758.2	773.5
55°	587.7	620.8	671.7	720.0	737.8
57.5°	541.9	575.0	628.4	679.3	699.7
60°	493.6	529.2	585.2	638.6	661.5
62.5°	445.3	483.4	544.5	600.5	623.4
65°	396.9	435.1	501.2	564.8	587.7
67.5°	348.6	389.3	460.5	526.7	554.7
70°	300.2	343.5	419.8	488.5	516.5
72.5°	251.9	297.7	381.6	452.9	480.9
75°	203.5	254.4	343.5	417.3	447.8
77.5°	155.2	213.7	310.4	384.2	414.7
80°	111.9	178.1	274.8	351.1	381.6
82.5°	71.2	142.5	244.3	320.6	351.1
85°	38.2	114.5	216.3	292.6	320.6
87.5°	12.7	89.1	188.3	264.6	292.6
90°	0.0	68.7	165.4	236.6	267.2
92.5°	0.0	53.4	145.0	213.7	241.7
95°	0.0	43.3	124.7	190.8	218.8
97.5°	0.0	35.6	109.4	170.5	195.9
100°	0.0	28.0	94.1	152.7	175.6
102.5°	0.0	22.9	81.4	134.8	157.7
105°	0.0	15.3	68.7	119.6	139.9
107.5°	0.0	12.7	58.5	106.9	124.7
110°	0.0	10.2	53.4	91.6	109.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	7.6	48.3	81.4	99.2
115°	0.0	7.6	40.7	73.8	86.5
117.5°	0.0	7.6	35.6	66.2	78.9
120°	0.0	5.1	33.1	58.5	71.2
122.5°	0.0	5.1	28.0	53.4	63.6
125°	0.0	5.1	25.4	48.3	56.0
127.5°	0.0	2.5	22.9	43.3	50.9
130°	0.0	2.5	20.4	38.2	45.8
132.5°	0.0	2.5	17.8	35.6	43.3
135°	0.0	0.0	15.3	30.5	38.2
137.5°	0.0	0.0	12.7	28.0	33.1
140°	0.0	0.0	10.2	22.9	30.5
142.5°	0.0	0.0	7.6	20.4	25.4
145°	0.0	0.0	7.6	17.8	20.4
147.5°	0.0	0.0	5.1	12.7	17.8
150°	0.0	0.0	2.5	10.2	12.7
152.5°	0.0	0.0	0.0	7.6	10.2
155°	0.0	0.0	0.0	5.1	7.6
157.5°	0.0	0.0	0.0	0.0	2.5
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	19.70	21.24	20.17	21.70	22.18	21.65	23.19	22.12	23.64	24.13
	3H	21.20	22.61	21.68	23.07	23.60	24.07	25.48	24.56	25.94	26.47
	4H	21.69	23.02	22.19	23.50	24.04	25.24	26.57	25.74	27.06	27.59
	6H	21.96	23.20	22.48	23.70	24.25	26.45	27.69	26.96	28.18	28.74
	8H	22.01	23.20	22.54	23.72	24.28	27.05	28.24	27.58	28.76	29.32
	12H	22.03	23.17	22.56	23.68	24.27	27.71	28.85	28.24	29.36	29.95
4H	2H	20.56	21.90	21.07	22.38	22.92	22.09	23.42	22.59	23.90	24.44
	3H	22.30	23.44	22.82	23.96	24.52	24.74	25.87	25.25	26.40	26.96
	4H	22.91	23.94	23.44	24.48	25.07	26.08	27.12	26.61	27.65	28.25
	6H	23.31	24.22	23.86	24.78	25.39	27.48	28.39	28.03	28.95	29.56
	8H	23.40	24.26	23.96	24.82	25.44	28.19	29.05	28.75	29.61	30.23
	12H	23.45	24.23	24.03	24.82	25.44	28.96	29.75	29.55	30.34	30.96
8H	4H	23.57	24.43	24.13	24.99	25.61	26.30	27.16	26.86	27.72	28.34
	6H	24.15	24.88	24.74	25.48	26.11	27.87	28.60	28.46	29.20	29.83
	8H	24.33	24.99	24.93	25.60	26.24	28.72	29.38	29.33	30.00	30.63
	12H	24.45	25.04	25.05	25.64	26.34	29.68	30.27	30.29	30.87	31.58
12H	4H	23.75	24.54	24.34	25.13	25.75	26.31	27.09	26.89	27.68	28.31
	6H	24.43	25.09	25.03	25.71	26.34	27.90	28.57	28.51	29.18	29.82
	8H	24.71	25.30	25.31	25.90	26.61	28.83	29.42	29.44	30.02	30.73