

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P520604

Luminaire Tested: **4WSLA-75-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-75-L830-UPL15-UNV-U  
Description: 4 FOOT, 750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

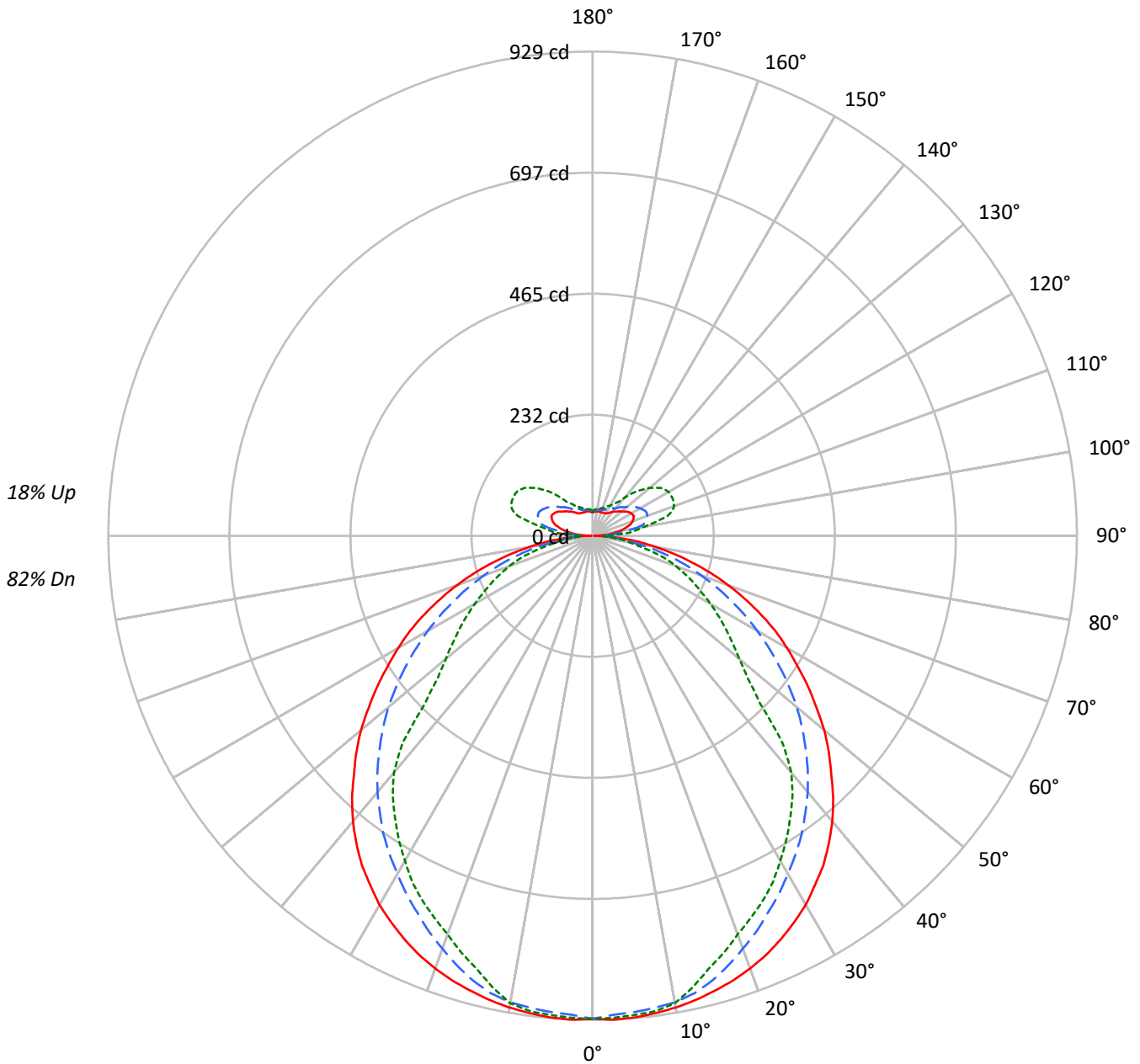
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3001.0 lumens  
Efficiency: N/A  
Efficacy: 129.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 23.2  
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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4987	4987	4987
5°	5011	4955	4986
10°	5023	4967	4976
15°	5037	4927	4791
20°	5060	4828	4661
25°	5073	4732	4587
30°	5081	4655	4474
35°	5070	4594	4341
40°	5025	4510	4166
45°	4928	4399	3455
50°	4855	4280	3077
55°	4736	4109	2928
60°	4633	3925	2813
65°	4523	3710	2729
70°	4348	3474	2677
75°	4105	3186	2462
80°	3756	2681	2185
85°	3365	2322	2205



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	2.9
10°-20°	249.5	8.3
20°-30°	372.3	12.4
30°-40°	443.6	14.8
40°-50°	441.2	14.7
50°-60°	378.2	12.6
60°-70°	284.8	9.5
70°-80°	164.9	5.5
80°-90°	49.6	1.7
90°-100°	53.2	1.8
100°-110°	109.3	3.6
110°-120°	115.6	3.9
120°-130°	96.4	3.2
130°-140°	67.3	2.2
140°-150°	41.9	1.4
150°-160°	26.0	0.9
160°-170°	14.6	0.5
170°-180°	4.7	0.2
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0°-30°	709.6	23.6
0°-40°	1153.2	38.4
0°-60°	1972.6	65.7
0°-90°	2471.9	82.4
90°-120°	278.1	9.3
90°-150°	483.7	16.1
90°-180°	529.0	17.6
0°-180°	3001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	928	925	917	924	923	88
15°	904	903	884	869	860	255
25°	854	842	797	777	772	394
35°	772	751	699	672	661	482
45°	648	632	578	521	454	501
55°	505	497	438	348	312	451
65°	355	347	291	226	214	351
75°	197	191	153	122	118	209
85°	54	48	38	36	36	58
90°	3	13	23	28	30	6
95°	30	40	46	68	73	29
105°	70	73	105	141	149	73
115°	87	74	112	154	169	85
125°	81	71	97	142	160	72
135°	66	71	78	105	121	51
145°	54	62	68	72	77	34
155°	49	52	55	60	61	23
165°	48	50	52	54	54	14
175°	47	48	49	50	51	4
180°	46	46	46	46	46	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	926.6	926.6	926.6	926.6	926.6
2.5°	929.4	927.6	920.0	927.6	925.7
5°	927.6	924.7	917.2	923.8	922.9
7.5°	923.8	921.9	913.5	921.0	920.0
10°	919.1	916.3	908.8	914.4	910.6
12.5°	912.5	910.6	899.4	894.7	887.2
15°	904.1	903.1	884.3	869.3	859.9
17.5°	894.7	890.9	864.6	846.7	838.3
20°	883.4	877.8	843.0	822.3	813.9
22.5°	870.2	861.8	821.4	801.6	793.2
25°	854.3	842.0	796.9	777.2	772.5
27.5°	836.4	822.3	774.4	754.6	749.0
30°	817.6	799.8	749.0	730.2	719.9
32.5°	794.1	777.2	724.6	703.0	691.7
35°	771.6	750.9	699.2	671.9	660.7
37.5°	744.3	723.6	670.1	642.8	629.7
40°	715.2	694.5	641.9	609.9	593.0
42.5°	683.2	664.4	610.9	572.3	539.4
45°	647.5	631.5	578.0	520.6	453.9
47.5°	614.6	599.6	545.1	470.8	402.2
50°	579.8	565.7	511.2	423.8	367.5
52.5°	541.3	531.0	474.6	383.4	338.3
55°	504.7	497.1	437.9	347.7	312.0
57.5°	466.1	458.6	401.3	313.9	285.7
60°	430.4	422.9	364.6	283.8	261.3
62.5°	394.7	384.4	328.9	254.7	235.9
65°	355.2	346.8	291.3	226.5	214.3
67.5°	315.8	308.2	256.6	200.2	191.7
70°	276.3	269.7	220.8	174.8	170.1
72.5°	237.8	229.3	188.9	149.4	147.5
75°	197.4	190.8	153.2	122.2	118.4
77.5°	158.8	153.2	120.3	93.0	90.2
80°	121.2	115.6	86.5	67.7	70.5
82.5°	89.3	81.8	58.3	52.6	55.4
85°	54.5	47.9	37.6	35.7	35.7
87.5°	18.8	17.9	16.9	19.7	20.7
90°	2.8	13.2	22.6	28.2	30.1
92.5°	16.0	23.5	31.0	36.7	38.5
95°	30.1	40.4	46.0	67.7	73.3
97.5°	41.4	53.6	60.1	79.9	85.5
100°	52.6	63.9	84.6	94.9	101.5
102.5°	62.0	70.5	99.6	120.3	124.1
105°	70.5	73.3	105.3	141.0	149.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.6	75.2	112.8	153.2	168.2
115°	87.4	74.2	111.8	154.1	169.2
117.5°	87.4	74.2	109.0	154.1	169.2
120°	85.5	75.2	105.3	152.2	168.2
122.5°	83.6	73.3	101.5	148.5	164.5
125°	80.8	71.4	96.8	141.9	159.8
127.5°	76.1	73.3	92.1	133.4	151.3
130°	72.4	74.2	86.5	125.0	142.8
132.5°	69.5	72.4	80.8	115.6	131.6
135°	65.8	71.4	78.0	105.3	121.2
137.5°	63.0	68.6	73.3	95.9	109.0
140°	60.1	66.7	68.6	83.6	94.9
142.5°	56.4	63.9	64.8	78.0	82.7
145°	53.6	62.0	67.7	72.4	77.1
147.5°	50.7	58.3	65.8	66.7	71.4
150°	49.8	54.5	63.0	63.9	65.8
152.5°	48.9	52.6	58.3	63.9	64.8
155°	48.9	51.7	55.4	60.1	61.1
157.5°	47.9	51.7	53.6	57.3	58.3
160°	47.9	50.7	52.6	55.4	56.4
162.5°	47.9	50.7	51.7	54.5	55.4
165°	47.9	49.8	51.7	53.6	53.6
167.5°	47.9	49.8	50.7	52.6	52.6
170°	47.9	48.9	50.7	51.7	51.7
172.5°	47.0	48.9	49.8	51.7	51.7
175°	47.0	47.9	48.9	49.8	50.7
177.5°	45.1	47.9	48.9	49.8	48.9
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	77.1	74.2	109.0	148.5	160.7
110°	81.8	75.2	111.8	151.3	166.3



(END OF REPORT)