

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: P520472

Luminaire Tested: **4WSLA-100-L930-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520472
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-100-L930-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

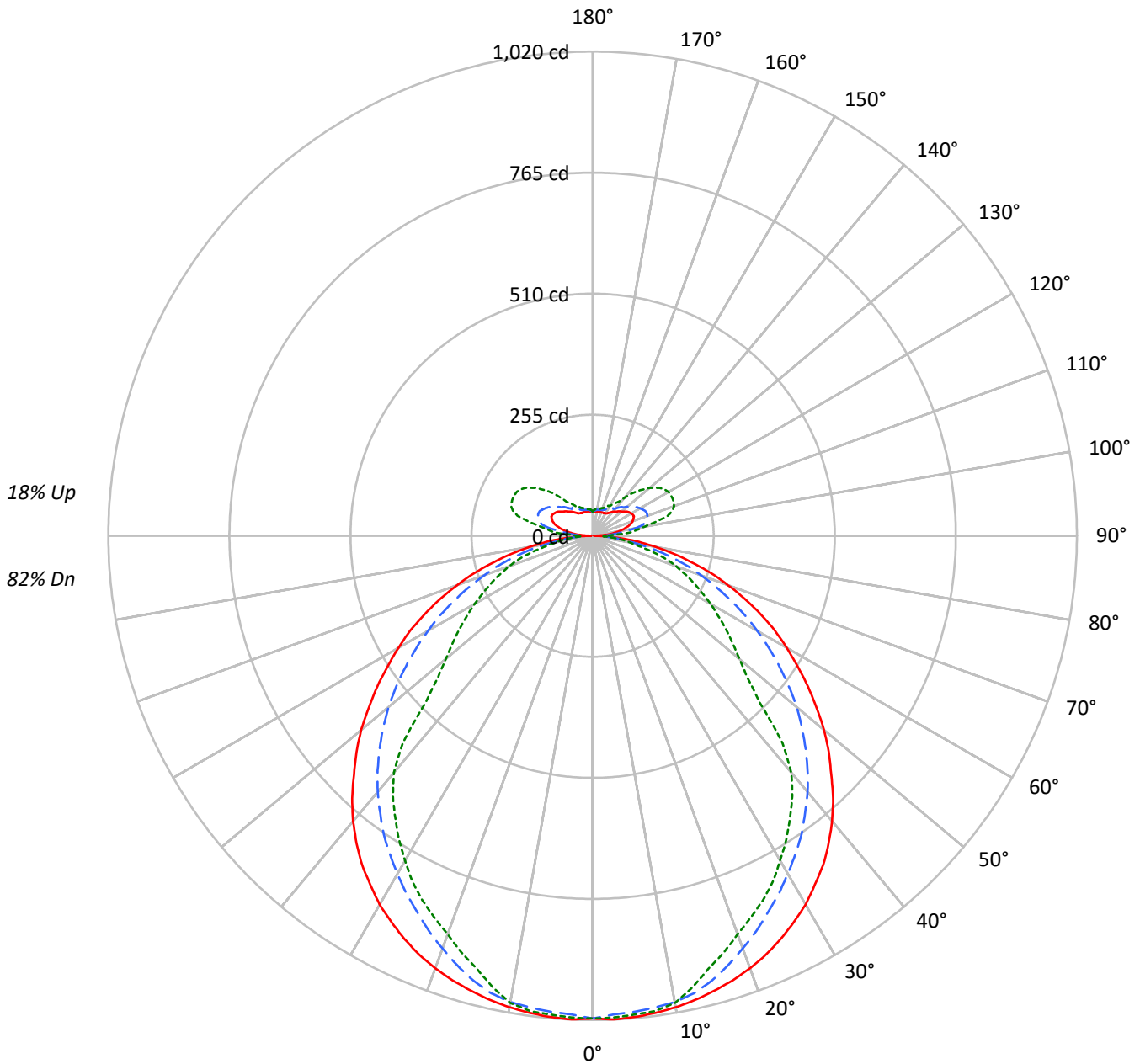
Lumens per Lamp: N/A
Luminaire Lumens: 3293.0 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 31.6
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: 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°	5472	5472	5472
5°	5499	5438	5471
10°	5511	5450	5461
15°	5527	5407	5258
20°	5552	5298	5115
25°	5567	5193	5034
30°	5576	5108	4909
35°	5562	5041	4763
40°	5514	4948	4572
45°	5408	4827	3791
50°	5328	4697	3376
55°	5196	4510	3213
60°	5084	4307	3086
65°	4964	4071	2994
70°	4771	3813	2938
75°	4504	3496	2701
80°	4122	2941	2396
85°	3693	2544	2421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	2.9
10°-20°	273.7	8.3
20°-30°	408.5	12.4
30°-40°	486.8	14.8
40°-50°	484.2	14.7
50°-60°	415.0	12.6
60°-70°	312.5	9.5
70°-80°	181.0	5.5
80°-90°	54.4	1.7
90°-100°	58.4	1.8
100°-110°	119.9	3.6
110°-120°	126.8	3.9
120°-130°	105.8	3.2
130°-140°	73.9	2.2
140°-150°	46.0	1.4
150°-160°	28.5	0.9
160°-170°	16.1	0.5
170°-180°	5.2	0.2
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0°-30°	778.6	23.6
0°-40°	1265.4	38.4
0°-60°	2164.5	65.7
0°-90°	2712.4	82.4
90°-120°	305.1	9.3
90°-150°	530.8	16.1
90°-180°	581.0	17.6
0°-180°	3293.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1018	1015	1006	1014	1013	97
15°	992	991	970	954	944	280
25°	937	924	874	853	848	432
35°	847	824	767	737	725	529
45°	710	693	634	571	498	549
55°	554	546	481	382	342	495
65°	390	380	320	248	235	385
75°	217	209	168	134	130	229
85°	60	53	41	39	39	64
90°	3	14	25	31	33	6
95°	33	44	50	74	80	32
105°	77	80	116	155	164	80
115°	96	82	123	169	186	93
125°	89	78	106	156	175	79
135°	72	78	86	116	133	56
145°	59	68	74	79	85	37
155°	54	57	61	66	67	25
165°	53	55	57	59	59	15
175°	52	53	54	55	56	5
180°	50	50	50	50	50	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.8	1016.8	1016.8	1016.8	1016.8
2.5°	1019.9	1017.8	1009.6	1017.8	1015.8
5°	1017.8	1014.7	1006.5	1013.7	1012.7
7.5°	1013.7	1011.6	1002.3	1010.6	1009.6
10°	1008.5	1005.4	997.2	1003.4	999.3
12.5°	1001.3	999.3	986.9	981.7	973.5
15°	992.0	991.0	970.4	953.9	943.6
17.5°	981.7	977.6	948.7	929.1	919.9
20°	969.4	963.2	925.0	902.3	893.0
22.5°	954.9	945.6	901.3	879.6	870.4
25°	937.4	924.0	874.5	852.8	847.7
27.5°	917.8	902.3	849.7	828.1	821.9
30°	897.2	877.6	821.9	801.3	789.9
32.5°	871.4	852.8	795.1	771.4	759.0
35°	846.6	823.9	767.2	737.3	725.0
37.5°	816.7	794.0	735.3	705.4	690.9
40°	784.8	762.1	704.3	669.3	650.7
42.5°	749.7	729.1	670.3	628.0	591.9
45°	710.5	693.0	634.2	571.3	498.1
47.5°	674.4	657.9	598.1	516.6	441.4
50°	636.3	620.8	561.0	465.1	403.2
52.5°	594.0	582.6	520.8	420.7	371.2
55°	553.8	545.5	480.6	381.6	342.4
57.5°	511.5	503.2	440.3	344.4	313.5
60°	472.3	464.1	400.1	311.4	286.7
62.5°	433.1	421.8	360.9	279.5	258.8
65°	389.8	380.5	319.7	248.5	235.1
67.5°	346.5	338.2	281.5	219.7	210.4
70°	303.2	296.0	242.3	191.8	186.7
72.5°	260.9	251.6	207.3	164.0	161.9
75°	216.6	209.3	168.1	134.1	129.9
77.5°	174.3	168.1	132.0	102.1	99.0
80°	133.0	126.8	94.9	74.2	77.3
82.5°	98.0	89.7	63.9	57.7	60.8
85°	59.8	52.6	41.2	39.2	39.2
87.5°	20.6	19.6	18.6	21.7	22.7
90°	3.1	14.4	24.7	30.9	33.0
92.5°	17.5	25.8	34.0	40.2	42.3
95°	33.0	44.3	50.5	74.2	80.4
97.5°	45.4	58.8	66.0	87.7	93.8
100°	57.7	70.1	92.8	104.2	111.4
102.5°	68.1	77.3	109.3	132.0	136.1
105°	77.3	80.4	115.5	154.7	164.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	82.5	123.7	168.1	184.6
115°	95.9	81.5	122.7	169.1	185.6
117.5°	95.9	81.5	119.6	169.1	185.6
120°	93.8	82.5	115.5	167.1	184.6
122.5°	91.8	80.4	111.4	162.9	180.5
125°	88.7	78.4	106.2	155.7	175.3
127.5°	83.5	80.4	101.1	146.4	166.0
130°	79.4	81.5	94.9	137.2	156.7
132.5°	76.3	79.4	88.7	126.8	144.4
135°	72.2	78.4	85.6	115.5	133.0
137.5°	69.1	75.3	80.4	105.2	119.6
140°	66.0	73.2	75.3	91.8	104.2
142.5°	61.9	70.1	71.2	85.6	90.7
145°	58.8	68.1	74.2	79.4	84.6
147.5°	55.7	63.9	72.2	73.2	78.4
150°	54.7	59.8	69.1	70.1	72.2
152.5°	53.6	57.7	63.9	70.1	71.2
155°	53.6	56.7	60.8	66.0	67.0
157.5°	52.6	56.7	58.8	62.9	63.9
160°	52.6	55.7	57.7	60.8	61.9
162.5°	52.6	55.7	56.7	59.8	60.8
165°	52.6	54.7	56.7	58.8	58.8
167.5°	52.6	54.7	55.7	57.7	57.7
170°	52.6	53.6	55.7	56.7	56.7
172.5°	51.6	53.6	54.7	56.7	56.7
175°	51.6	52.6	53.6	54.7	55.7
177.5°	49.5	52.6	53.6	54.7	53.6
180°	50.5	50.5	50.5	50.5	50.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	84.6	81.5	119.6	162.9	176.3
110°	89.7	82.5	122.7	166.0	182.5



(END OF REPORT)