

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: P520476

Luminaire Tested: **4WSLA-100-L935-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-100-L935-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

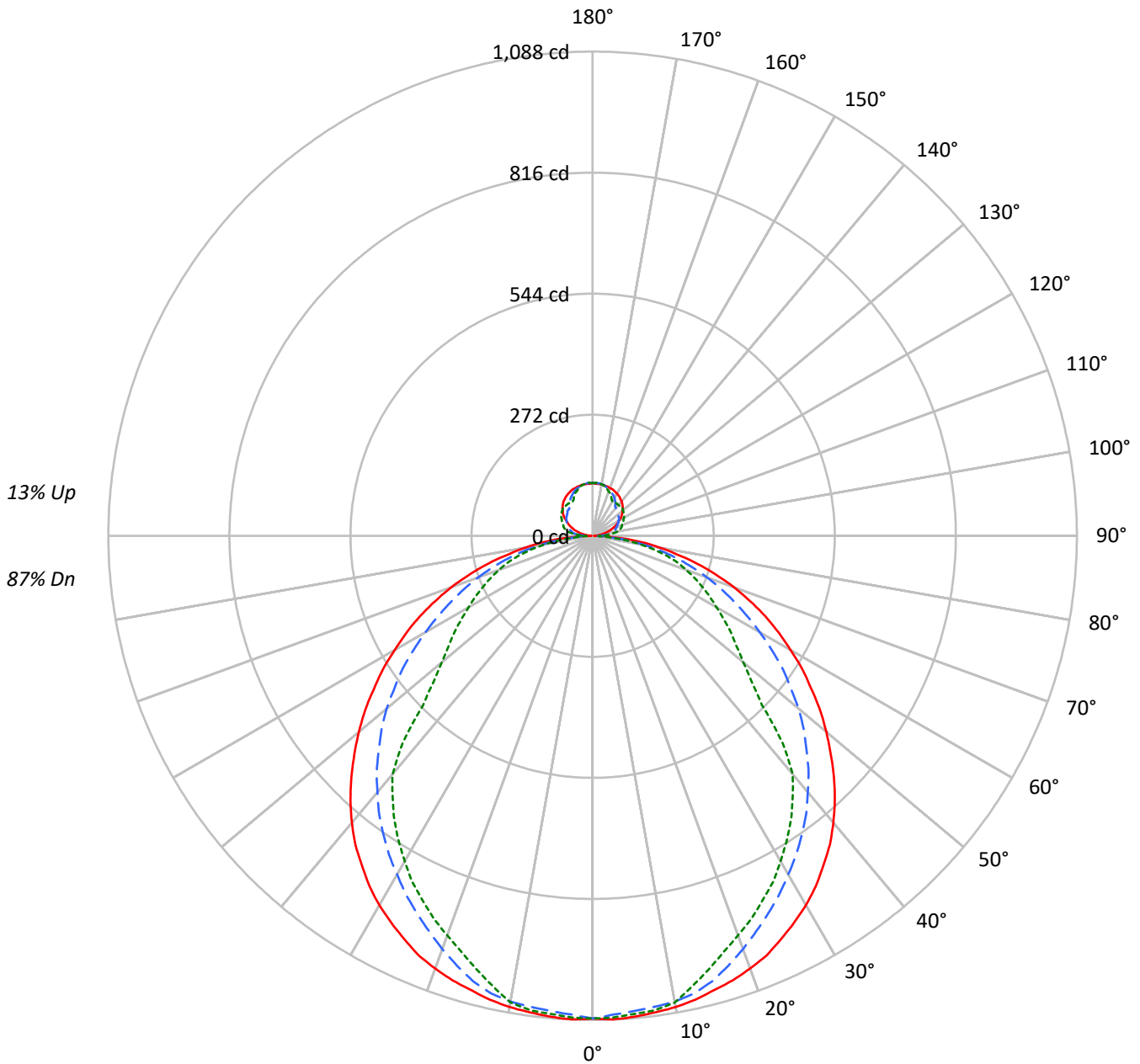
Lumens per Lamp: N/A
Luminaire Lumens: 3376.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5838	5838	5838
5°	5861	5793	5827
10°	5877	5809	5817
15°	5888	5775	5618
20°	5927	5659	5471
25°	5941	5552	5366
30°	5956	5461	5248
35°	5937	5384	5107
40°	5911	5285	4913
45°	5833	5168	4099
50°	5737	5057	3698
55°	5624	4891	3559
60°	5527	4670	3461
65°	5447	4472	3459
70°	5305	4297	3512
75°	5063	4090	3537
80°	4742	3676	3288
85°	4335	2600	2217



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.0
10°-20°	292.0	8.6
20°-30°	436.3	12.9
30°-40°	520.8	15.4
40°-50°	520.8	15.4
50°-60°	450.7	13.4
60°-70°	346.0	10.2
70°-80°	212.0	6.3
80°-90°	59.7	1.8
90°-100°	33.7	1.0
100°-110°	53.5	1.6
110°-120°	62.6	1.9
120°-130°	67.6	2.0
130°-140°	66.6	2.0
140°-150°	58.9	1.7
150°-160°	48.5	1.4
160°-170°	32.4	1.0
170°-180°	11.3	0.3
0°-30°	830.9	24.6
0°-40°	1351.7	40.0
0°-60°	2323.2	68.8
0°-90°	2940.8	87.1
90°-120°	149.9	4.4
90°-150°	342.9	10.2
90°-180°	435.0	12.9
0°-180°	3376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1085	1082	1072	1080	1078	103
15°	1057	1055	1036	1018	1008	299
25°	1000	988	935	910	904	462
35°	904	880	819	790	777	566
45°	766	744	679	618	538	591
55°	599	585	521	417	379	537
65°	428	412	351	282	272	422
75°	244	231	197	170	170	257
85°	70	58	42	36	36	73
90°	3	11	17	22	23	5
95°	12	26	36	38	38	12
105°	36	38	53	62	66	38
115°	59	50	62	72	76	58
125°	80	64	72	83	86	71
135°	95	86	80	87	92	73
145°	106	102	89	87	90	66
155°	112	111	105	100	98	52
165°	116	117	114	114	114	33
175°	117	119	119	120	120	11
180°	119	119	119	119	119	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1084.8	1084.8	1084.8	1084.8	1084.8
2.5°	1087.9	1084.8	1077.0	1084.8	1083.2
5°	1084.8	1081.7	1072.3	1080.1	1078.5
7.5°	1080.1	1077.0	1067.6	1077.0	1075.4
10°	1075.4	1072.3	1062.9	1069.2	1064.5
12.5°	1067.6	1064.5	1053.6	1045.8	1036.4
15°	1056.7	1055.1	1036.4	1017.7	1008.3
17.5°	1047.3	1042.6	1013.0	991.1	980.2
20°	1034.8	1027.0	988.0	963.0	955.2
22.5°	1020.8	1008.3	961.5	938.1	931.8
25°	1000.5	988.0	934.9	910.0	903.7
27.5°	980.2	964.6	908.4	883.4	877.2
30°	958.4	936.5	878.8	855.3	844.4
32.5°	933.4	911.5	850.7	824.1	811.6
35°	903.7	880.3	819.4	789.8	777.3
37.5°	875.6	850.7	788.2	755.4	738.3
40°	841.3	816.3	752.3	716.4	699.3
42.5°	805.4	782.0	718.0	674.3	632.1
45°	766.4	744.5	679.0	618.1	538.5
47.5°	725.8	707.1	643.1	560.3	483.9
50°	685.2	666.5	604.0	505.7	441.7
52.5°	644.6	629.0	560.3	460.4	407.4
55°	599.4	585.3	521.3	416.7	379.3
57.5°	558.8	544.7	476.1	380.8	349.6
60°	513.5	501.0	433.9	344.9	321.5
62.5°	471.4	457.3	391.8	313.7	296.6
65°	427.7	412.1	351.2	282.5	271.6
67.5°	382.4	366.8	312.2	254.4	248.2
70°	337.1	324.7	273.1	226.3	223.2
72.5°	290.3	276.3	234.1	199.8	199.8
75°	243.5	231.0	196.7	170.1	170.1
77.5°	195.1	188.9	157.6	138.9	140.5
80°	153.0	145.2	118.6	106.1	106.1
82.5°	112.4	103.0	79.6	70.2	73.4
85°	70.2	57.8	42.1	35.9	35.9
87.5°	21.9	17.2	12.5	14.0	14.0
90°	3.1	10.9	17.2	21.9	23.4
92.5°	7.8	20.3	25.0	29.7	31.2
95°	12.5	26.5	35.9	37.5	37.5
97.5°	17.2	29.7	43.7	49.9	49.9
100°	23.4	31.2	46.8	56.2	57.8
102.5°	29.7	34.3	49.9	59.3	62.4
105°	35.9	37.5	53.1	62.4	65.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	46.8	59.3	70.2	73.4
115°	59.3	49.9	62.4	71.8	76.5
117.5°	64.0	54.6	65.6	74.9	78.0
120°	68.7	57.8	67.1	78.0	81.2
122.5°	74.9	60.9	70.2	79.6	84.3
125°	79.6	64.0	71.8	82.7	85.8
127.5°	84.3	70.2	73.4	84.3	87.4
130°	87.4	76.5	74.9	85.8	89.0
132.5°	92.1	81.2	76.5	87.4	90.5
135°	95.2	85.8	79.6	87.4	92.1
137.5°	98.3	90.5	79.6	87.4	90.5
140°	101.5	95.2	81.2	87.4	90.5
142.5°	103.0	98.3	82.7	87.4	90.5
145°	106.1	101.5	89.0	87.4	90.5
147.5°	107.7	104.6	93.7	87.4	90.5
150°	109.3	107.7	98.3	89.0	89.0
152.5°	110.8	109.3	101.5	95.2	92.1
155°	112.4	110.8	104.6	99.9	98.3
157.5°	113.9	113.9	107.7	104.6	103.0
160°	113.9	115.5	110.8	107.7	106.1
162.5°	115.5	117.1	112.4	110.8	109.3
165°	115.5	117.1	113.9	113.9	113.9
167.5°	117.1	118.6	117.1	115.5	115.5
170°	117.1	118.6	117.1	117.1	117.1
172.5°	117.1	118.6	118.6	118.6	118.6
175°	117.1	118.6	118.6	120.2	120.2
177.5°	117.1	118.6	118.6	118.6	118.6
180°	118.6	118.6	118.6	118.6	118.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	42.1	40.6	54.6	65.6	68.7
110°	46.8	43.7	57.8	67.1	70.2



(END OF REPORT)