

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: P520463

Luminaire Tested: **4WSLA-100-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520463
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-L835-UPL15-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

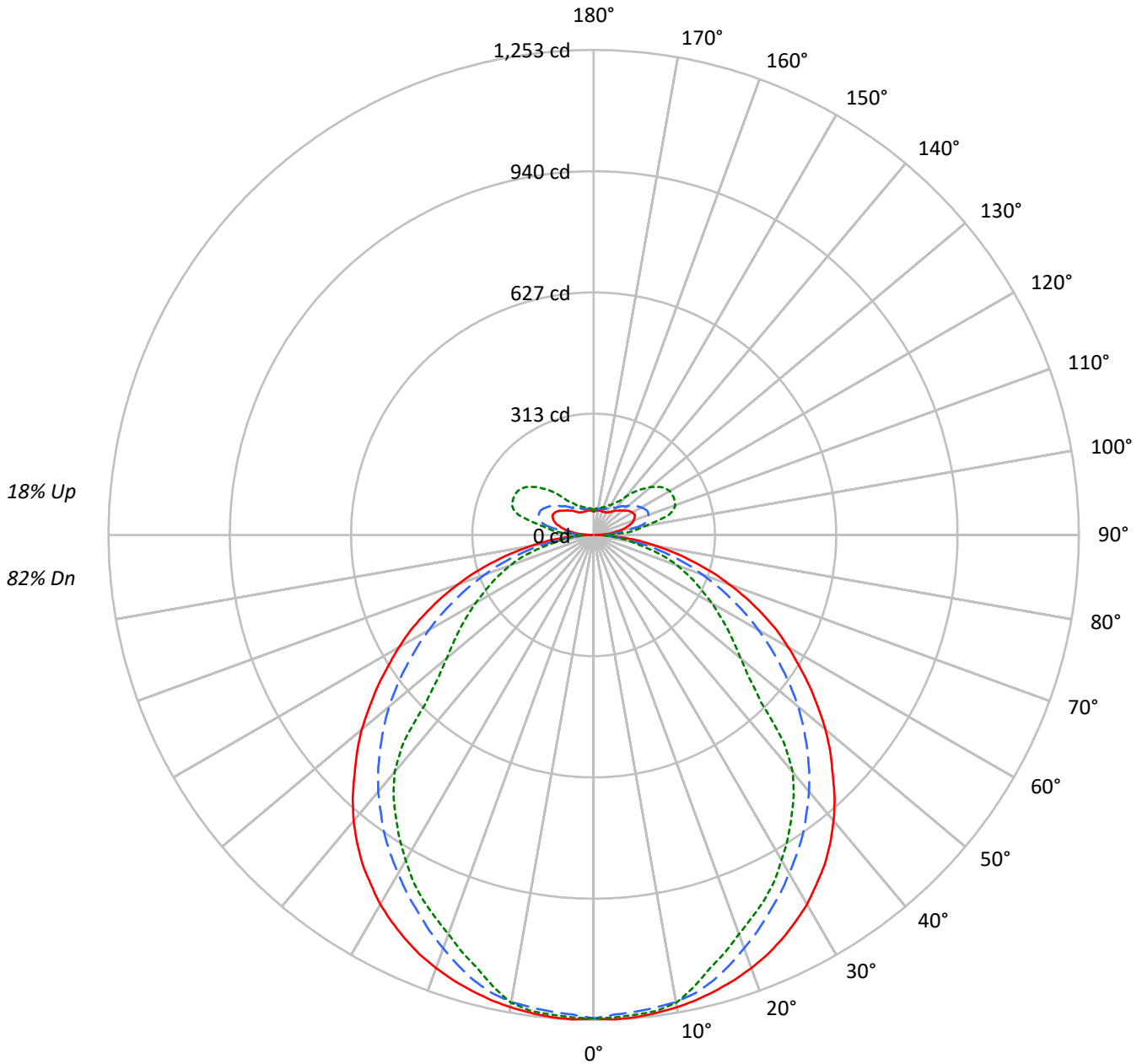
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4046.0 lumens
Efficiency: N/A
Efficacy: 128.0 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°	6724	6724	6724
5°	6756	6681	6722
10°	6772	6696	6710
15°	6791	6643	6459
20°	6821	6509	6284
25°	6839	6380	6185
30°	6850	6275	6031
35°	6834	6194	5852
40°	6774	6080	5617
45°	6645	5931	4658
50°	6546	5771	4148
55°	6384	5540	3947
60°	6246	5292	3791
65°	6099	5002	3679
70°	5862	4686	3608
75°	5533	4294	3319
80°	5064	3614	2944
85°	4539	3131	2970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	2.9
10°-20°	336.3	8.3
20°-30°	501.9	12.4
30°-40°	598.1	14.8
40°-50°	594.9	14.7
50°-60°	509.8	12.6
60°-70°	384.0	9.5
70°-80°	222.4	5.5
80°-90°	66.8	1.7
90°-100°	71.7	1.8
100°-110°	147.4	3.6
110°-120°	155.8	3.9
120°-130°	130.0	3.2
130°-140°	90.8	2.2
140°-150°	56.5	1.4
150°-160°	35.0	0.9
160°-170°	19.7	0.5
170°-180°	6.4	0.2
0°-30°	956.7	23.6
0°-40°	1554.8	38.4
0°-60°	2659.5	65.7
0°-90°	3332.7	82.4
90°-120°	374.9	9.3
90°-150°	652.2	16.1
90°-180°	713.0	17.6
0°-180°	4046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1251	1247	1237	1246	1244	119
15°	1219	1218	1192	1172	1159	344
25°	1152	1135	1074	1048	1042	531
35°	1040	1012	943	906	891	650
45°	873	851	779	702	612	675
55°	680	670	590	469	421	608
65°	479	468	393	305	289	473
75°	266	257	206	165	160	282
85°	74	65	51	48	48	78
90°	4	18	30	38	40	7
95°	40	54	62	91	99	39
105°	95	99	142	190	202	99
115°	118	100	151	208	228	115
125°	109	96	130	191	215	97
135°	89	96	105	142	163	69
145°	72	84	91	98	104	46
155°	66	70	75	81	82	30
165°	65	67	70	72	72	18
175°	63	65	66	67	68	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1249.3	1249.3	1249.3	1249.3	1249.3
2.5°	1253.1	1250.6	1240.4	1250.6	1248.0
5°	1250.6	1246.8	1236.6	1245.5	1244.2
7.5°	1245.5	1243.0	1231.6	1241.7	1240.4
10°	1239.2	1235.4	1225.2	1232.8	1227.8
12.5°	1230.3	1227.8	1212.5	1206.2	1196.1
15°	1218.9	1217.6	1192.3	1172.0	1159.3
17.5°	1206.2	1201.1	1165.7	1141.6	1130.2
20°	1191.0	1183.4	1136.5	1108.7	1097.2
22.5°	1173.3	1161.9	1107.4	1080.8	1069.4
25°	1151.7	1135.3	1074.4	1047.8	1041.5
27.5°	1127.7	1108.7	1044.0	1017.4	1009.8
30°	1102.3	1078.2	1009.8	984.5	970.5
32.5°	1070.6	1047.8	976.9	947.7	932.5
35°	1040.2	1012.4	942.7	905.9	890.7
37.5°	1003.5	975.6	903.4	866.6	848.9
40°	964.2	936.3	865.4	822.3	799.5
42.5°	921.1	895.8	823.6	771.6	727.3
45°	873.0	851.4	779.2	701.9	612.0
47.5°	828.6	808.4	734.9	634.8	542.3
50°	781.8	762.8	689.3	571.4	495.4
52.5°	729.8	715.9	639.9	516.9	456.1
55°	680.4	670.3	590.4	468.8	420.7
57.5°	628.4	618.3	541.0	423.2	385.2
60°	580.3	570.2	491.6	382.6	352.2
62.5°	532.2	518.2	443.5	343.4	318.0
65°	478.9	467.5	392.8	305.4	288.9
67.5°	425.7	415.6	345.9	269.9	258.5
70°	372.5	363.6	297.8	235.7	229.3
72.5°	320.6	309.2	254.7	201.5	198.9
75°	266.1	257.2	206.5	164.7	159.6
77.5°	214.1	206.5	162.2	125.4	121.6
80°	163.4	155.8	116.6	91.2	95.0
82.5°	120.4	110.2	78.6	71.0	74.8
85°	73.5	64.6	50.7	48.1	48.1
87.5°	25.3	24.1	22.8	26.6	27.9
90°	3.8	17.7	30.4	38.0	40.5
92.5°	21.5	31.7	41.8	49.4	51.9
95°	40.5	54.5	62.1	91.2	98.8
97.5°	55.7	72.2	81.1	107.7	115.3
100°	71.0	86.2	114.0	128.0	136.8
102.5°	83.6	95.0	134.3	162.2	167.2
105°	95.0	98.8	141.9	190.1	201.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.0	101.4	152.0	206.5	226.8
115°	117.8	100.1	150.8	207.8	228.1
117.5°	117.8	100.1	147.0	207.8	228.1
120°	115.3	101.4	141.9	205.3	226.8
122.5°	112.8	98.8	136.8	200.2	221.7
125°	109.0	96.3	130.5	191.3	215.4
127.5°	102.6	98.8	124.2	179.9	204.0
130°	97.6	100.1	116.6	168.5	192.6
132.5°	93.8	97.6	109.0	155.8	177.4
135°	88.7	96.3	105.2	141.9	163.4
137.5°	84.9	92.5	98.8	129.2	147.0
140°	81.1	90.0	92.5	112.8	128.0
142.5°	76.0	86.2	87.4	105.2	111.5
145°	72.2	83.6	91.2	97.6	103.9
147.5°	68.4	78.6	88.7	90.0	96.3
150°	67.2	73.5	84.9	86.2	88.7
152.5°	65.9	71.0	78.6	86.2	87.4
155°	65.9	69.7	74.8	81.1	82.4
157.5°	64.6	69.7	72.2	77.3	78.6
160°	64.6	68.4	71.0	74.8	76.0
162.5°	64.6	68.4	69.7	73.5	74.8
165°	64.6	67.2	69.7	72.2	72.2
167.5°	64.6	67.2	68.4	71.0	71.0
170°	64.6	65.9	68.4	69.7	69.7
172.5°	63.4	65.9	67.2	69.7	69.7
175°	63.4	64.6	65.9	67.2	68.4
177.5°	60.8	64.6	65.9	67.2	65.9
180°	62.1	62.1	62.1	62.1	62.1



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	103.9	100.1	147.0	200.2	216.7
110°	110.2	101.4	150.8	204.0	224.3



(END OF REPORT)