

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: P520751

Luminaire Tested: **8WSLA-50-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520751  
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: 8WSLA-50-L835-UPL15-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

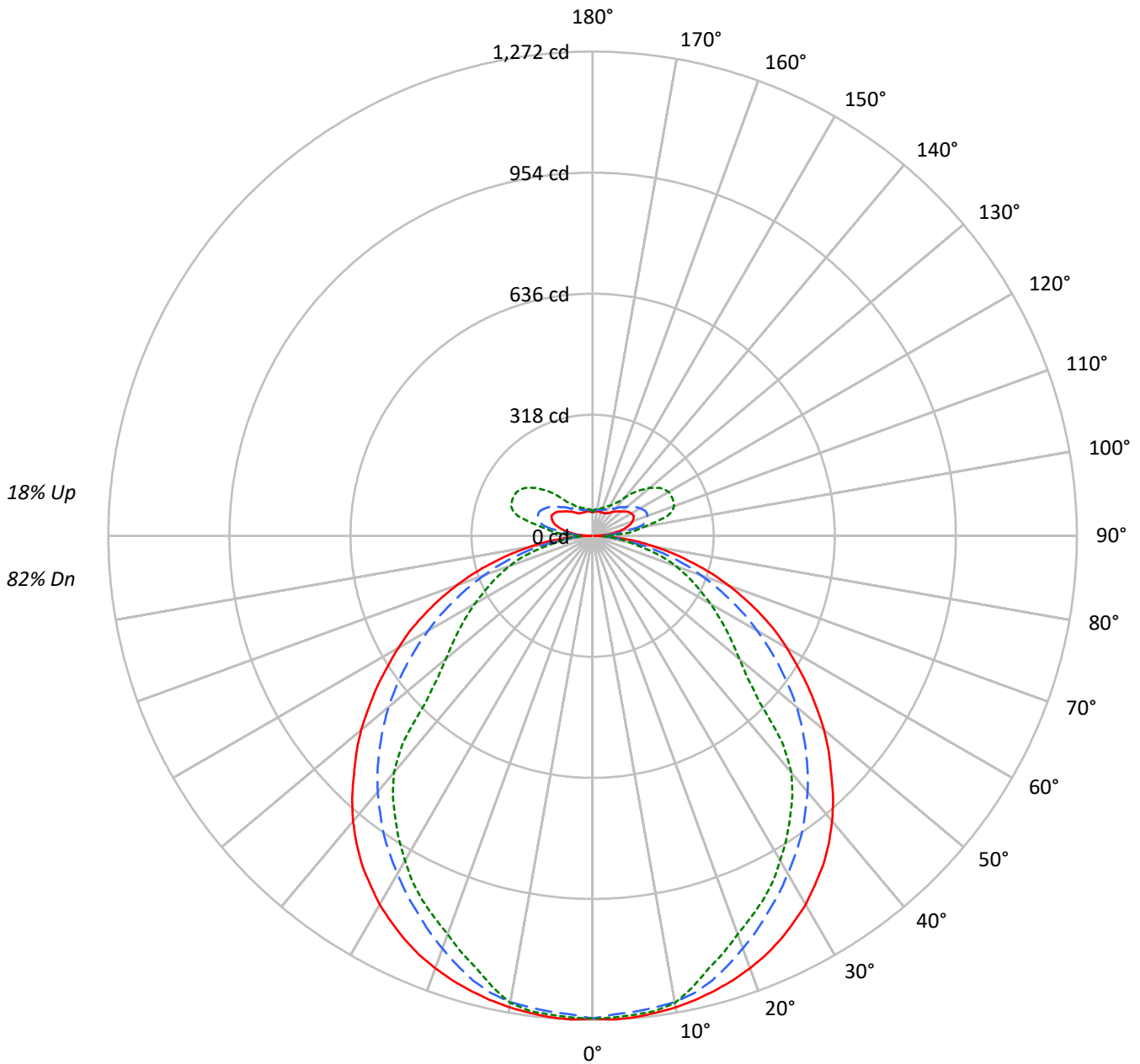
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4107.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 30.5  
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°	3412	3412	3412
5°	3429	3391	3412
10°	3437	3398	3406
15°	3447	3372	3278
20°	3462	3304	3190
25°	3471	3238	3139
30°	3477	3185	3061
35°	3469	3143	2970
40°	3438	3086	2851
45°	3372	3010	2364
50°	3322	2929	2105
55°	3240	2812	2003
60°	3170	2686	1924
65°	3096	2539	1867
70°	2975	2378	1832
75°	2808	2179	1685
80°	2571	1833	1495
85°	2303	1587	1510



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.2	2.9
10°-20°	341.4	8.3
20°-30°	509.5	12.4
30°-40°	607.1	14.8
40°-50°	603.9	14.7
50°-60°	517.5	12.6
60°-70°	389.8	9.5
70°-80°	225.7	5.5
80°-90°	67.8	1.7
90°-100°	72.8	1.8
100°-110°	149.6	3.6
110°-120°	158.1	3.9
120°-130°	131.9	3.2
130°-140°	92.2	2.2
140°-150°	57.4	1.4
150°-160°	35.6	0.9
160°-170°	20.0	0.5
170°-180°	6.5	0.2
0°-30°	971.1	23.6
0°-40°	1578.2	38.4
0°-60°	2699.6	65.7
0°-90°	3382.9	82.4
90°-120°	380.5	9.3
90°-150°	662.0	16.1
90°-180°	724.0	17.6
0°-180°	4107.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1269	1266	1255	1264	1263	121
15°	1237	1236	1210	1190	1177	350
25°	1169	1152	1091	1064	1057	539
35°	1056	1028	957	920	904	659
45°	886	864	791	712	621	685
55°	691	680	599	476	427	617
65°	486	475	399	310	293	481
75°	270	261	210	167	162	286
85°	75	66	51	49	49	80
90°	4	18	31	39	41	8
95°	41	55	63	93	100	39
105°	96	100	144	193	204	100
115°	120	102	153	211	232	116
125°	111	98	132	194	219	98
135°	90	98	107	144	166	70
145°	73	85	93	99	106	47
155°	67	71	76	82	84	31
165°	66	68	71	73	73	19
175°	64	66	67	68	70	6
180°	63	63	63	63	63	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1268.1	1268.1	1268.1	1268.1	1268.1
2.5°	1272.0	1269.4	1259.1	1269.4	1266.8
5°	1269.4	1265.6	1255.3	1264.3	1263.0
7.5°	1264.3	1261.7	1250.1	1260.4	1259.1
10°	1257.8	1254.0	1243.7	1251.4	1246.3
12.5°	1248.8	1246.3	1230.8	1224.4	1214.1
15°	1237.3	1236.0	1210.3	1189.7	1176.8
17.5°	1224.4	1219.3	1183.2	1158.8	1147.2
20°	1209.0	1201.2	1153.7	1125.4	1113.8
22.5°	1191.0	1179.4	1124.1	1097.1	1085.5
25°	1169.1	1152.4	1090.6	1063.6	1057.2
27.5°	1144.7	1125.4	1059.8	1032.8	1025.0
30°	1118.9	1094.5	1025.0	999.3	985.2
32.5°	1086.8	1063.6	991.6	962.0	946.6
35°	1055.9	1027.6	956.9	919.6	904.2
37.5°	1018.6	990.3	917.0	879.7	861.7
40°	978.7	950.5	878.4	834.7	811.6
42.5°	935.0	909.3	836.0	783.3	738.2
45°	886.1	864.3	791.0	712.5	621.2
47.5°	841.1	820.6	746.0	644.4	550.5
50°	793.5	774.3	699.7	580.0	502.9
52.5°	740.8	726.7	649.5	524.7	463.0
55°	690.7	680.4	599.3	475.9	427.0
57.5°	637.9	627.6	549.2	429.6	391.0
60°	589.0	578.8	499.0	388.4	357.5
62.5°	540.2	526.0	450.1	348.5	322.8
65°	486.2	474.6	398.7	310.0	293.2
67.5°	432.1	421.9	351.1	273.9	262.4
70°	378.1	369.1	302.2	239.2	232.8
72.5°	325.4	313.8	258.5	204.5	201.9
75°	270.1	261.1	209.6	167.2	162.1
77.5°	217.4	209.6	164.6	127.3	123.5
80°	165.9	158.2	118.3	92.6	96.5
82.5°	122.2	111.9	79.7	72.0	75.9
85°	74.6	65.6	51.4	48.9	48.9
87.5°	25.7	24.4	23.2	27.0	28.3
90°	3.9	18.0	30.9	38.6	41.2
92.5°	21.9	32.2	42.4	50.2	52.7
95°	41.2	55.3	63.0	92.6	100.3
97.5°	56.6	73.3	82.3	109.3	117.0
100°	72.0	87.5	115.8	129.9	138.9
102.5°	84.9	96.5	136.3	164.6	169.8
105°	96.5	100.3	144.0	192.9	204.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	115.8	102.9	154.3	209.6	230.2
115°	119.6	101.6	153.0	210.9	231.5
117.5°	119.6	101.6	149.2	210.9	231.5
120°	117.0	102.9	144.0	208.4	230.2
122.5°	114.5	100.3	138.9	203.2	225.1
125°	110.6	97.7	132.5	194.2	218.6
127.5°	104.2	100.3	126.0	182.6	207.1
130°	99.0	101.6	118.3	171.1	195.5
132.5°	95.2	99.0	110.6	158.2	180.1
135°	90.0	97.7	106.7	144.0	165.9
137.5°	86.2	93.9	100.3	131.2	149.2
140°	82.3	91.3	93.9	114.5	129.9
142.5°	77.2	87.5	88.7	106.7	113.2
145°	73.3	84.9	92.6	99.0	105.5
147.5°	69.5	79.7	90.0	91.3	97.7
150°	68.2	74.6	86.2	87.5	90.0
152.5°	66.9	72.0	79.7	87.5	88.7
155°	66.9	70.7	75.9	82.3	83.6
157.5°	65.6	70.7	73.3	78.5	79.7
160°	65.6	69.5	72.0	75.9	77.2
162.5°	65.6	69.5	70.7	74.6	75.9
165°	65.6	68.2	70.7	73.3	73.3
167.5°	65.6	68.2	69.5	72.0	72.0
170°	65.6	66.9	69.5	70.7	70.7
172.5°	64.3	66.9	68.2	70.7	70.7
175°	64.3	65.6	66.9	68.2	69.5
177.5°	61.7	65.6	66.9	68.2	66.9
180°	63.0	63.0	63.0	63.0	63.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	105.5	101.6	149.2	203.2	219.9
110°	111.9	102.9	153.0	207.1	227.6



(END OF REPORT)