

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: P520727

Luminaire Tested: **8WSLA-200-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520727
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-200-L835-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

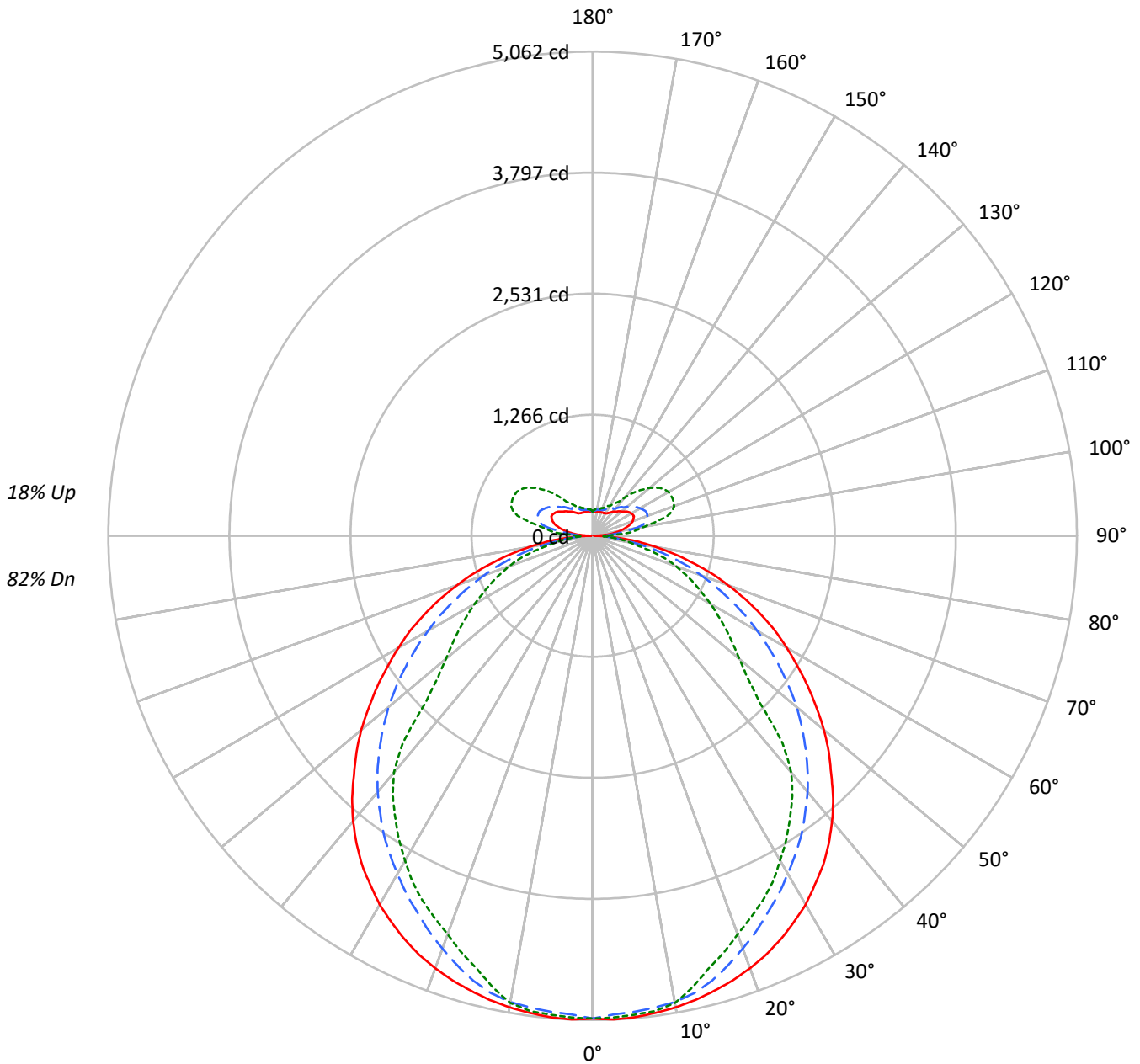
Lumens per Lamp: N/A
Luminaire Lumens: 16344.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 152.3
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°	13580	13580	13580
5°	13646	13494	13577
10°	13678	13524	13552
15°	13717	13418	13047
20°	13777	13147	12693
25°	13814	12887	12492
30°	13836	12675	12182
35°	13804	12510	11820
40°	13682	12280	11345
45°	13421	11979	9408
50°	13220	11656	8378
55°	12895	11190	7972
60°	12616	10688	7658
65°	12319	10103	7431
70°	11840	9464	7289
75°	11175	8674	6705
80°	10232	7297	5949
85°	9167	6320	6005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.3	2.9
10°-20°	1358.6	8.3
20°-30°	2027.6	12.4
30°-40°	2416.0	14.8
40°-50°	2403.1	14.7
50°-60°	2059.5	12.6
60°-70°	1551.1	9.5
70°-80°	898.3	5.5
80°-90°	270.0	1.7
90°-100°	289.8	1.8
100°-110°	595.2	3.6
110°-120°	629.4	3.9
120°-130°	525.1	3.2
130°-140°	366.8	2.2
140°-150°	228.3	1.4
150°-160°	141.5	0.9
160°-170°	79.7	0.5
170°-180°	25.7	0.2
0°-30°	3864.6	23.6
0°-40°	6280.5	38.4
0°-60°	10743.1	65.7
0°-90°	13462.6	82.4
90°-120°	1514.4	9.3
90°-150°	2634.5	16.1
90°-180°	2881.0	17.6
0°-180°	16344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5047	5047	5047	5047	5047	
5°	5052	5036	4995	5031	5026	481
15°	4924	4919	4816	4734	4683	1391
25°	4652	4586	4340	4233	4207	2145
35°	4202	4090	3808	3660	3598	2625
45°	3526	3439	3148	2836	2472	2726
55°	2748	2708	2385	1894	1699	2457
65°	1935	1889	1587	1234	1167	1913
75°	1075	1039	834	665	645	1139
85°	297	261	205	194	194	317
90°	15	72	123	154	164	30
95°	164	220	251	368	399	157
105°	384	399	573	768	814	398
115°	476	404	609	839	921	463
125°	440	389	527	773	870	391
135°	358	389	425	573	660	280
145°	292	338	368	394	420	185
155°	266	282	302	328	333	123
165°	261	271	282	292	292	74
175°	256	261	266	271	276	24
180°	251	251	251	251	251	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5046.6	5046.6	5046.6	5046.6	5046.6
2.5°	5061.9	5051.7	5010.7	5051.7	5041.5
5°	5051.7	5036.3	4995.4	5031.2	5026.1
7.5°	5031.2	5021.0	4974.9	5015.9	5010.7
10°	5005.6	4990.3	4949.3	4980.0	4959.6
12.5°	4969.8	4959.6	4898.1	4872.6	4831.6
15°	4923.7	4918.6	4816.3	4734.4	4683.2
17.5°	4872.6	4852.1	4708.8	4611.5	4565.5
20°	4811.1	4780.4	4591.1	4478.5	4432.4
22.5°	4739.5	4693.4	4473.3	4365.8	4319.8
25°	4652.5	4585.9	4340.3	4232.8	4207.2
27.5°	4555.2	4478.5	4217.4	4109.9	4079.2
30°	4452.9	4355.6	4079.2	3976.9	3920.6
32.5°	4324.9	4232.8	3946.2	3828.4	3767.0
35°	4202.1	4089.5	3808.0	3659.5	3598.1
37.5°	4053.6	3941.0	3649.3	3500.9	3429.2
40°	3895.0	3782.4	3495.8	3321.7	3229.6
42.5°	3721.0	3618.6	3326.8	3117.0	2937.9
45°	3526.5	3439.4	3147.7	2835.5	2472.1
47.5°	3347.3	3265.4	2968.6	2564.2	2190.6
50°	3157.9	3081.2	2784.3	2308.3	2001.2
52.5°	2948.1	2891.8	2584.7	2088.2	1842.6
55°	2748.5	2707.5	2385.1	1893.7	1699.3
57.5°	2538.6	2497.7	2185.5	1709.5	1555.9
60°	2344.1	2303.2	1985.9	1545.7	1422.9
62.5°	2149.7	2093.4	1791.4	1387.0	1284.7
65°	1934.7	1888.6	1586.7	1233.5	1167.0
67.5°	1719.7	1678.8	1397.3	1090.2	1044.1
70°	1504.8	1468.9	1202.8	952.0	926.4
72.5°	1294.9	1248.8	1028.8	813.8	803.6
75°	1074.8	1039.0	834.3	665.4	644.9
77.5°	865.0	834.3	655.1	506.7	491.3
80°	660.3	629.5	470.9	368.5	383.9
82.5°	486.2	445.3	317.3	286.6	302.0
85°	296.9	261.0	204.7	194.5	194.5
87.5°	102.4	97.2	92.1	107.5	112.6
90°	15.4	71.7	122.8	153.5	163.8
92.5°	87.0	128.0	168.9	199.6	209.8
95°	163.8	220.1	250.8	368.5	399.2
97.5°	225.2	291.7	327.6	435.0	465.8
100°	286.6	348.0	460.6	516.9	552.8
102.5°	337.8	383.9	542.5	655.1	675.6
105°	383.9	399.2	573.2	767.7	813.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	460.6	409.5	614.2	834.3	916.2
115°	476.0	404.3	609.1	839.4	921.3
117.5°	476.0	404.3	593.7	839.4	921.3
120°	465.8	409.5	573.2	829.2	916.2
122.5°	455.5	399.2	552.8	808.7	895.7
125°	440.2	389.0	527.2	772.9	870.1
127.5°	414.6	399.2	501.6	726.8	824.0
130°	394.1	404.3	470.9	680.7	778.0
132.5°	378.7	394.1	440.2	629.5	716.6
135°	358.3	389.0	424.8	573.2	660.3
137.5°	342.9	373.6	399.2	522.1	593.7
140°	327.6	363.4	373.6	455.5	516.9
142.5°	307.1	348.0	353.2	424.8	450.4
145°	291.7	337.8	368.5	394.1	419.7
147.5°	276.4	317.3	358.3	363.4	389.0
150°	271.3	296.9	342.9	348.0	358.3
152.5°	266.1	286.6	317.3	348.0	353.2
155°	266.1	281.5	302.0	327.6	332.7
157.5°	261.0	281.5	291.7	312.2	317.3
160°	261.0	276.4	286.6	302.0	307.1
162.5°	261.0	276.4	281.5	296.9	302.0
165°	261.0	271.3	281.5	291.7	291.7
167.5°	261.0	271.3	276.4	286.6	286.6
170°	261.0	266.1	276.4	281.5	281.5
172.5°	255.9	266.1	271.3	281.5	281.5
175°	255.9	261.0	266.1	271.3	276.4
177.5°	245.7	261.0	266.1	271.3	266.1
180°	250.8	250.8	250.8	250.8	250.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	419.7	404.3	593.7	808.7	875.2
110°	445.3	409.5	609.1	824.0	905.9



(END OF REPORT)