

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: P520562

Luminaire Tested: **4WSLA-200-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520562
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-200-L840-UPL15-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

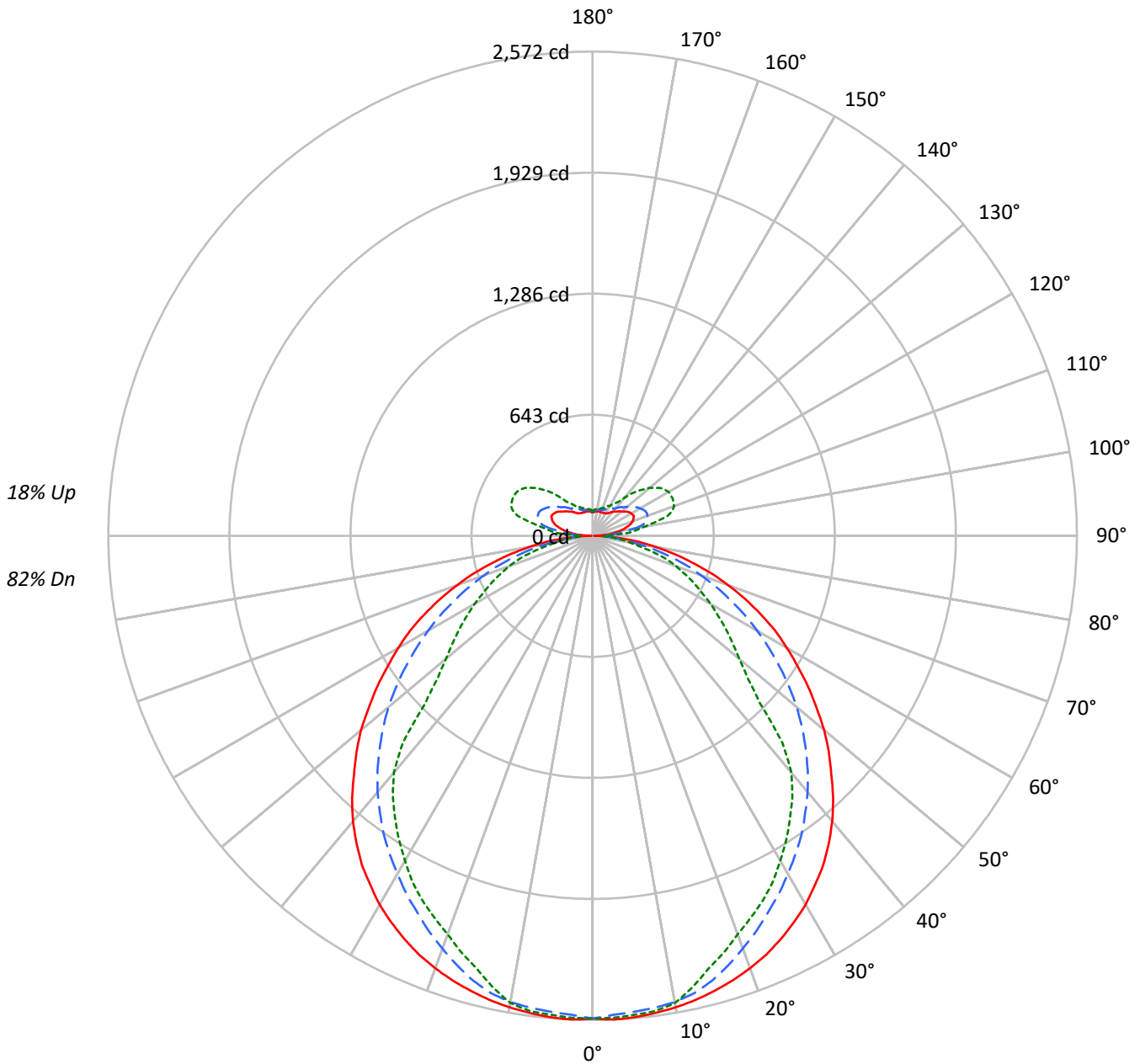
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8306.1 lumens
Efficiency: N/A
Efficacy: 108.9 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): 76.3
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°	13803	13803	13803
5°	13870	13715	13800
10°	13902	13746	13774
15°	13942	13638	13261
20°	14003	13363	12901
25°	14041	13098	12697
30°	14063	12883	12382
35°	14031	12715	12014
40°	13907	12481	11531
45°	13640	12176	9562
50°	13438	11848	8515
55°	13106	11373	8103
60°	12823	10863	7783
65°	12521	10268	7552
70°	12033	9619	7408
75°	11358	8817	6814
80°	10398	7417	6047
85°	9318	6422	6101



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	2.9
10°-20°	690.5	8.3
20°-30°	1030.4	12.4
30°-40°	1227.8	14.8
40°-50°	1221.2	14.7
50°-60°	1046.7	12.6
60°-70°	788.3	9.5
70°-80°	456.5	5.5
80°-90°	137.2	1.7
90°-100°	147.3	1.8
100°-110°	302.5	3.6
110°-120°	319.8	3.9
120°-130°	266.8	3.2
130°-140°	186.4	2.2
140°-150°	116.0	1.4
150°-160°	71.9	0.9
160°-170°	40.5	0.5
170°-180°	13.1	0.2
0°-30°	1964.0	23.6
0°-40°	3191.7	38.4
0°-60°	5459.6	65.7
0°-90°	6841.6	82.4
90°-120°	769.6	9.3
90°-150°	1338.9	16.1
90°-180°	1464.0	17.6
0°-180°	8306.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2567	2560	2539	2557	2554	244
15°	2502	2500	2448	2406	2380	707
25°	2364	2331	2206	2151	2138	1090
35°	2136	2078	1935	1860	1829	1334
45°	1792	1748	1600	1441	1256	1385
55°	1397	1376	1212	962	864	1249
65°	983	960	806	627	593	972
75°	546	528	424	338	328	579
85°	151	133	104	99	99	161
90°	8	36	62	78	83	15
95°	83	112	128	187	203	80
105°	195	203	291	390	414	202
115°	242	206	310	427	468	236
125°	224	198	268	393	442	199
135°	182	198	216	291	336	142
145°	148	172	187	200	213	94
155°	135	143	154	166	169	62
165°	133	138	143	148	148	38
175°	130	133	135	138	140	12
180°	128	128	128	128	128	



TEST NUMBER: P520562

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2564.7	2564.7	2564.7	2564.7	2564.7
2.5°	2572.5	2567.3	2546.5	2567.3	2562.1
5°	2567.3	2559.5	2538.7	2556.9	2554.3
7.5°	2556.9	2551.7	2528.2	2549.1	2546.5
10°	2543.9	2536.1	2515.2	2530.8	2520.4
12.5°	2525.6	2520.4	2489.2	2476.2	2455.4
15°	2502.2	2499.6	2447.6	2406.0	2380.0
17.5°	2476.2	2465.8	2393.0	2343.6	2320.2
20°	2445.0	2429.4	2333.2	2275.9	2252.5
22.5°	2408.6	2385.2	2273.3	2218.7	2195.3
25°	2364.4	2330.6	2205.7	2151.1	2138.1
27.5°	2315.0	2275.9	2143.3	2088.7	2073.1
30°	2262.9	2213.5	2073.1	2021.0	1992.4
32.5°	2197.9	2151.1	2005.4	1945.6	1914.4
35°	2135.5	2078.3	1935.2	1859.8	1828.6
37.5°	2060.1	2002.8	1854.6	1779.1	1742.7
40°	1979.4	1922.2	1776.5	1688.1	1641.3
42.5°	1891.0	1839.0	1690.7	1584.1	1493.0
45°	1792.1	1747.9	1599.7	1441.0	1256.3
47.5°	1701.1	1659.5	1508.6	1303.1	1113.3
50°	1604.9	1565.8	1415.0	1173.1	1017.0
52.5°	1498.2	1469.6	1313.5	1061.2	936.4
55°	1396.8	1376.0	1212.1	962.4	863.6
57.5°	1290.1	1269.3	1110.7	868.8	790.7
60°	1191.3	1170.5	1009.2	785.5	723.1
62.5°	1092.5	1063.8	910.4	704.9	652.9
65°	983.2	959.8	806.3	626.9	593.0
67.5°	874.0	853.2	710.1	554.0	530.6
70°	764.7	746.5	611.3	483.8	470.8
72.5°	658.1	634.7	522.8	413.6	408.4
75°	546.2	528.0	424.0	338.1	327.7
77.5°	439.6	424.0	332.9	257.5	249.7
80°	335.5	319.9	239.3	187.3	195.1
82.5°	247.1	226.3	161.3	145.7	153.5
85°	150.9	132.7	104.0	98.8	98.8
87.5°	52.0	49.4	46.8	54.6	57.2
90°	7.8	36.4	62.4	78.0	83.2
92.5°	44.2	65.0	85.8	101.4	106.6
95°	83.2	111.8	127.5	187.3	202.9
97.5°	114.4	148.3	166.5	221.1	236.7
100°	145.7	176.9	234.1	262.7	280.9
102.5°	171.7	195.1	275.7	332.9	343.3
105°	195.1	202.9	291.3	390.2	413.6



TEST NUMBER: P520562

CATALOG NUMBER: 4WSLA-200-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	234.1	208.1	312.1	424.0	465.6
115°	241.9	205.5	309.5	426.6	468.2
117.5°	241.9	205.5	301.7	426.6	468.2
120°	236.7	208.1	291.3	421.4	465.6
122.5°	231.5	202.9	280.9	411.0	455.2
125°	223.7	197.7	267.9	392.8	442.2
127.5°	210.7	202.9	254.9	369.4	418.8
130°	200.3	205.5	239.3	345.9	395.4
132.5°	192.5	200.3	223.7	319.9	364.2
135°	182.1	197.7	215.9	291.3	335.5
137.5°	174.3	189.9	202.9	265.3	301.7
140°	166.5	184.7	189.9	231.5	262.7
142.5°	156.1	176.9	179.5	215.9	228.9
145°	148.3	171.7	187.3	200.3	213.3
147.5°	140.5	161.3	182.1	184.7	197.7
150°	137.9	150.9	174.3	176.9	182.1
152.5°	135.3	145.7	161.3	176.9	179.5
155°	135.3	143.1	153.5	166.5	169.1
157.5°	132.7	143.1	148.3	158.7	161.3
160°	132.7	140.5	145.7	153.5	156.1
162.5°	132.7	140.5	143.1	150.9	153.5
165°	132.7	137.9	143.1	148.3	148.3
167.5°	132.7	137.9	140.5	145.7	145.7
170°	132.7	135.3	140.5	143.1	143.1
172.5°	130.1	135.3	137.9	143.1	143.1
175°	130.1	132.7	135.3	137.9	140.5
177.5°	124.9	132.7	135.3	137.9	135.3
180°	127.5	127.5	127.5	127.5	127.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	213.3	205.5	301.7	411.0	444.8
110°	226.3	208.1	309.5	418.8	460.4



(END OF REPORT)