

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: P520559

Luminaire Tested: **4WSLA-200-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520559
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-L835-UPL15-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

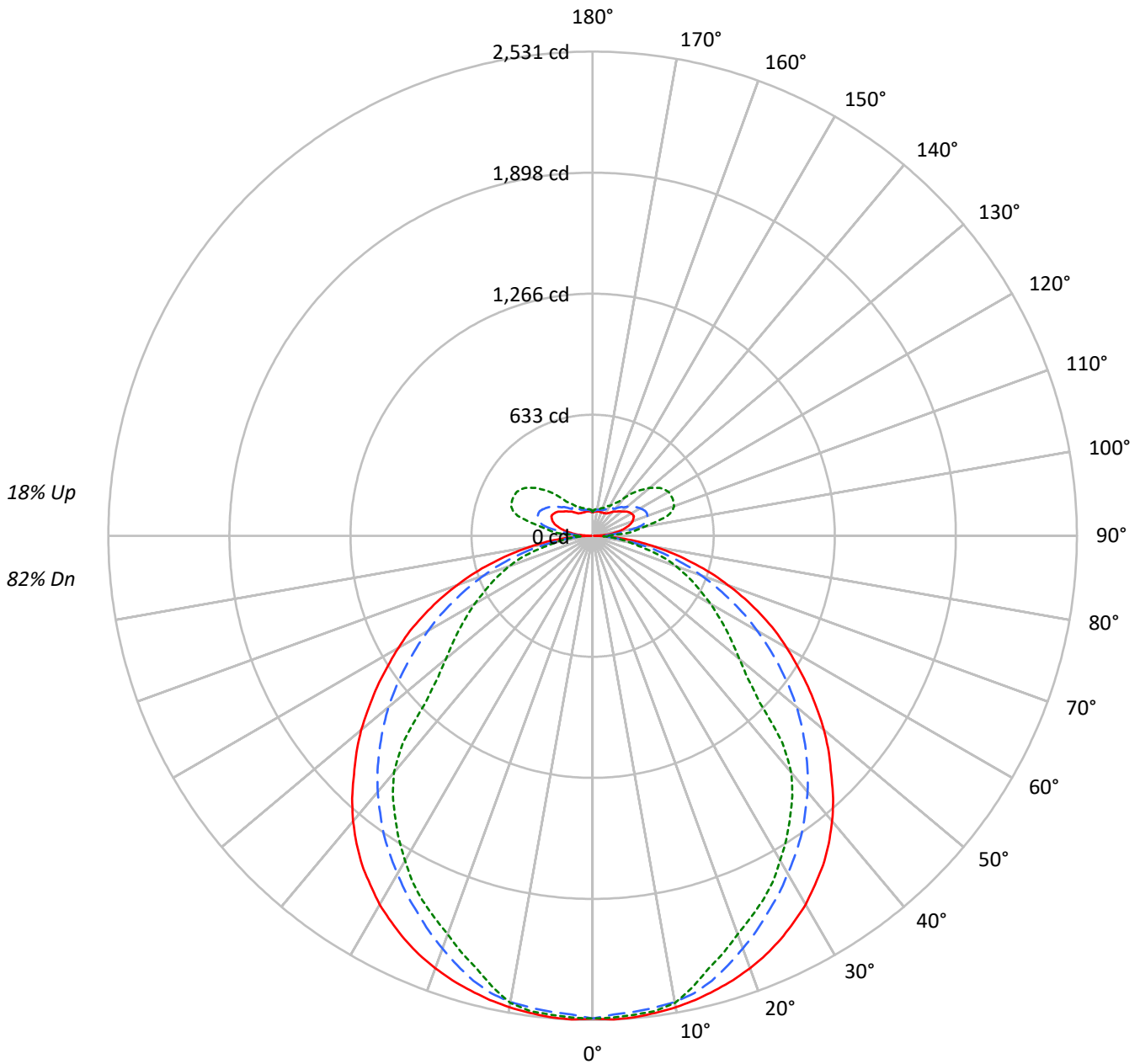
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8172.0 lumens
Efficiency: N/A
Efficacy: 107.1 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				20				20
RC	80				70				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	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13580	13580	13580
5°	13646	13494	13577
10°	13678	13524	13552
15°	13717	13417	13047
20°	13778	13147	12693
25°	13814	12887	12492
30°	13836	12675	12182
35°	13804	12510	11820
40°	13682	12280	11345
45°	13420	11979	9408
50°	13221	11657	8378
55°	12894	11189	7972
60°	12616	10687	7657
65°	12318	10103	7431
70°	11840	9464	7289
75°	11175	8673	6704
80°	10231	7296	5948
85°	9164	6323	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.2	2.9
10°-20°	679.3	8.3
20°-30°	1013.8	12.4
30°-40°	1208.0	14.8
40°-50°	1201.5	14.7
50°-60°	1029.8	12.6
60°-70°	775.5	9.5
70°-80°	449.2	5.5
80°-90°	135.0	1.7
90°-100°	144.9	1.8
100°-110°	297.6	3.6
110°-120°	314.7	3.9
120°-130°	262.5	3.2
130°-140°	183.4	2.2
140°-150°	114.1	1.4
150°-160°	70.8	0.9
160°-170°	39.9	0.5
170°-180°	12.8	0.2
0°-30°	1932.3	23.6
0°-40°	3140.3	38.4
0°-60°	5371.6	65.7
0°-90°	6731.3	82.4
90°-120°	757.2	9.3
90°-150°	1317.3	16.1
90°-180°	1441.0	17.6
0°-180°	8172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2523	2523	2523	2523	2523	
5°	2526	2518	2498	2516	2513	240
15°	2462	2459	2408	2367	2342	696
25°	2326	2293	2170	2116	2104	1072
35°	2101	2045	1904	1830	1799	1312
45°	1763	1720	1574	1418	1236	1363
55°	1374	1354	1192	947	850	1229
65°	967	944	793	617	584	956
75°	537	520	417	333	322	569
85°	148	130	102	97	97	158
90°	8	36	61	77	82	15
95°	82	110	125	184	200	78
105°	192	200	287	384	407	199
115°	238	202	304	420	461	232
125°	220	194	264	386	435	196
135°	179	194	212	287	330	140
145°	146	169	184	197	210	93
155°	133	141	151	164	166	61
165°	130	136	141	146	146	37
175°	128	130	133	136	138	12
180°	125	125	125	125	125	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2523.3	2523.3	2523.3	2523.3	2523.3
2.5°	2531.0	2525.8	2505.4	2525.8	2520.7
5°	2525.8	2518.2	2497.7	2515.6	2513.1
7.5°	2515.6	2510.5	2487.5	2507.9	2505.4
10°	2502.8	2495.1	2474.7	2490.0	2479.8
12.5°	2484.9	2479.8	2449.1	2436.3	2415.8
15°	2461.9	2459.3	2408.1	2367.2	2341.6
17.5°	2436.3	2426.0	2354.4	2305.8	2282.7
20°	2405.6	2390.2	2295.5	2239.2	2216.2
22.5°	2369.7	2346.7	2236.7	2182.9	2159.9
25°	2326.2	2293.0	2170.1	2116.4	2103.6
27.5°	2277.6	2239.2	2108.7	2055.0	2039.6
30°	2226.4	2177.8	2039.6	1988.4	1960.3
32.5°	2162.5	2116.4	1973.1	1914.2	1883.5
35°	2101.0	2044.7	1904.0	1829.8	1799.1
37.5°	2026.8	1970.5	1824.6	1750.4	1714.6
40°	1947.5	1891.2	1747.9	1660.9	1614.8
42.5°	1860.5	1809.3	1663.4	1558.5	1468.9
45°	1763.2	1719.7	1573.9	1417.7	1236.1
47.5°	1673.7	1632.7	1484.3	1282.1	1095.3
50°	1579.0	1540.6	1392.2	1154.2	1000.6
52.5°	1474.0	1445.9	1292.4	1044.1	921.3
55°	1374.2	1353.8	1192.5	946.9	849.6
57.5°	1269.3	1248.8	1092.7	854.7	778.0
60°	1172.1	1151.6	992.9	772.9	711.4
62.5°	1074.8	1046.7	895.7	693.5	642.3
65°	967.3	944.3	793.3	616.7	583.5
67.5°	859.9	839.4	698.6	545.1	522.1
70°	752.4	734.5	601.4	476.0	463.2
72.5°	647.5	624.4	514.4	406.9	401.8
75°	537.4	519.5	417.1	332.7	322.4
77.5°	432.5	417.1	327.6	253.4	245.7
80°	330.1	314.8	235.4	184.3	191.9
82.5°	243.1	222.6	158.7	143.3	151.0
85°	148.4	130.5	102.4	97.2	97.2
87.5°	51.2	48.6	46.1	53.7	56.3
90°	7.7	35.8	61.4	76.8	81.9
92.5°	43.5	64.0	84.5	99.8	104.9
95°	81.9	110.0	125.4	184.3	199.6
97.5°	112.6	145.9	163.8	217.5	232.9
100°	143.3	174.0	230.3	258.5	276.4
102.5°	168.9	191.9	271.3	327.6	337.8
105°	191.9	199.6	286.6	383.9	406.9



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CATALOG NUMBER: 4WSLA-200-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	230.3	204.7	307.1	417.1	458.1
115°	238.0	202.2	304.5	419.7	460.6
117.5°	238.0	202.2	296.9	419.7	460.6
120°	232.9	204.7	286.6	414.6	458.1
122.5°	227.8	199.6	276.4	404.3	447.8
125°	220.1	194.5	263.6	386.4	435.0
127.5°	207.3	199.6	250.8	363.4	412.0
130°	197.1	202.2	235.4	340.4	389.0
132.5°	189.4	197.1	220.1	314.8	358.3
135°	179.1	194.5	212.4	286.6	330.1
137.5°	171.5	186.8	199.6	261.0	296.9
140°	163.8	181.7	186.8	227.8	258.5
142.5°	153.5	174.0	176.6	212.4	225.2
145°	145.9	168.9	184.3	197.1	209.8
147.5°	138.2	158.7	179.1	181.7	194.5
150°	135.6	148.4	171.5	174.0	179.1
152.5°	133.1	143.3	158.7	174.0	176.6
155°	133.1	140.8	151.0	163.8	166.3
157.5°	130.5	140.8	145.9	156.1	158.7
160°	130.5	138.2	143.3	151.0	153.5
162.5°	130.5	138.2	140.8	148.4	151.0
165°	130.5	135.6	140.8	145.9	145.9
167.5°	130.5	135.6	138.2	143.3	143.3
170°	130.5	133.1	138.2	140.8	140.8
172.5°	128.0	133.1	135.6	140.8	140.8
175°	128.0	130.5	133.1	135.6	138.2
177.5°	122.8	130.5	133.1	135.6	133.1
180°	125.4	125.4	125.4	125.4	125.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	209.8	202.2	296.9	404.3	437.6
110°	222.6	204.7	304.5	412.0	453.0



(END OF REPORT)