

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: P520723

Luminaire Tested: **8WSLA-200-L830-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-200-L830-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

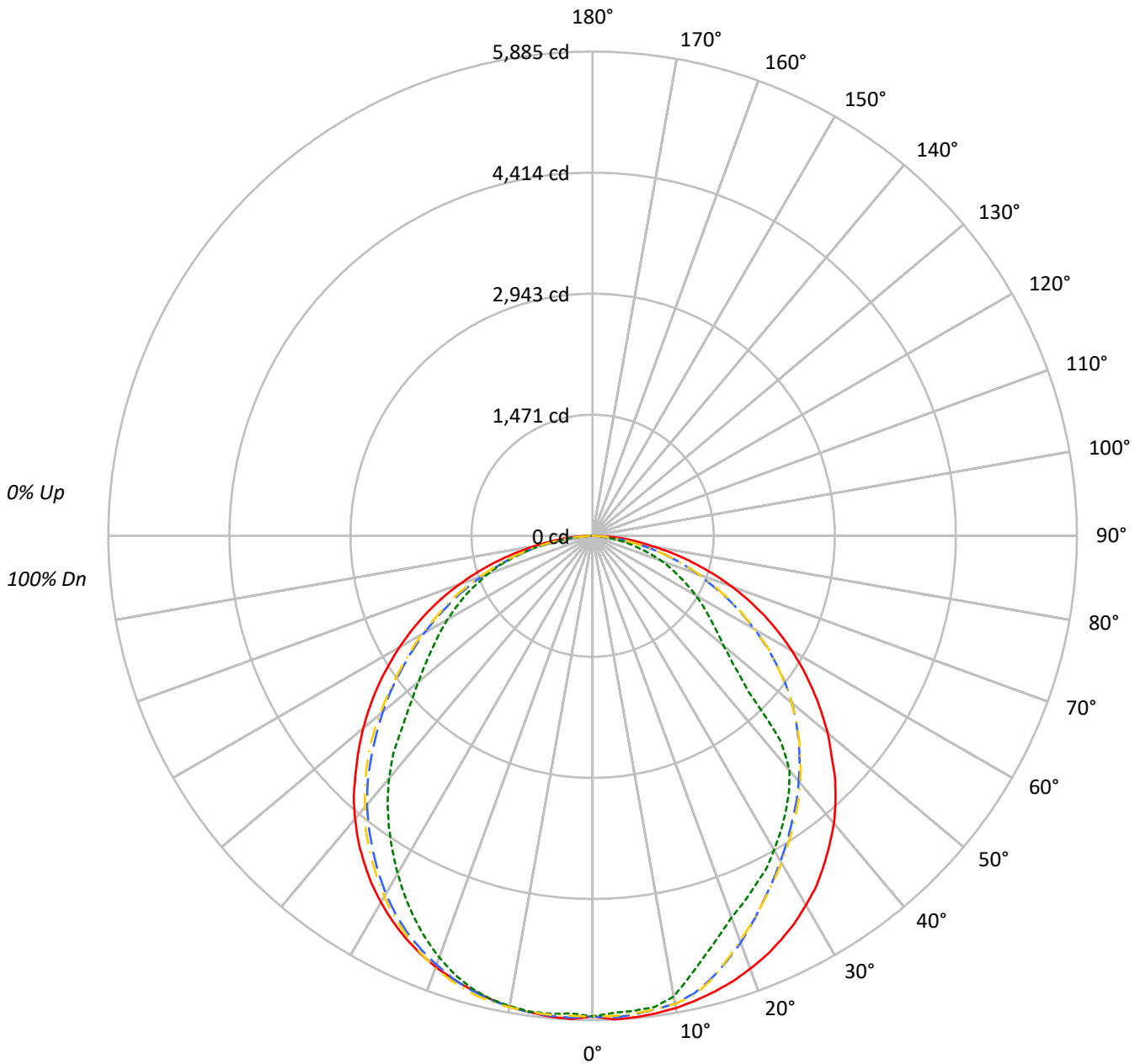
Lumens per Lamp: N/A
Luminaire Lumens: 15670.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15719	15719	15719	15719
5°	15872	15652	15846	15753
10°	15927	15533	15884	15859
15°	15976	14710	15906	15854
20°	16037	14134	15974	15615
25°	16088	13901	16004	15222
30°	16106	13700	15989	14723
35°	16080	13434	15915	14175
40°	16028	13078	15775	13518
45°	15849	10161	15492	12403
50°	15612	8698	15231	11571
55°	15334	8145	14938	11129
60°	15044	7775	14589	10946
65°	14686	7363	14187	10815
70°	14103	7002	13512	10652
75°	13131	6158	12511	10133
80°	11655	5148	10927	8596
85°	11029	3677	9676	4934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.0	3.5
10°-20°	1583.0	10.1
20°-30°	2365.5	15.1
30°-40°	2815.8	18.0
40°-50°	2814.5	18.0
50°-60°	2421.8	15.5
60°-70°	1822.8	11.6
70°-80°	1038.7	6.6
80°-90°	252.8	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4503.5	28.7
0°-40°	7319.3	46.7
0°-60°	12555.6	80.1
0°-90°	15670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15670.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5841	5841	5841	5841	5841	
5°	5876	5794	5866	5832	5876	559
15°	5735	5280	5710	5691	5735	1620
25°	5418	4682	5390	5127	5418	2498
35°	4895	4090	4845	4315	4895	3063
45°	4165	2670	4071	3259	4165	3207
55°	3268	1736	3184	2372	3268	2922
65°	2306	1156	2228	1698	2306	2278
75°	1263	592	1203	975	1263	1337
85°	357	119	313	160	357	389
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3
2.5°	5885.1	5831.9	5863.2	5853.8	5803.7	5822.5	5841.3	5822.5	5878.9	5828.7	5863.2
5°	5875.7	5819.3	5838.1	5819.3	5794.3	5800.5	5828.7	5809.9	5866.3	5813.1	5856.9
7.5°	5856.9	5788.0	5806.8	5797.4	5775.5	5778.6	5806.8	5791.1	5841.3	5791.1	5841.3
10°	5828.7	5756.6	5772.3	5731.6	5684.6	5719.0	5775.5	5759.8	5813.1	5756.6	5813.1
12.5°	5784.9	5712.8	5697.1	5562.4	5477.7	5543.6	5715.9	5715.9	5766.0	5712.8	5772.3
15°	5734.7	5656.4	5571.8	5368.1	5280.3	5346.1	5584.3	5665.8	5709.6	5656.4	5715.9
17.5°	5675.2	5584.3	5421.3	5183.2	5101.7	5167.5	5411.9	5590.6	5647.0	5590.6	5643.8
20°	5600.0	5493.4	5261.5	4988.9	4935.6	4995.2	5239.6	5499.7	5578.0	5509.1	5546.7
22.5°	5518.5	5390.0	5082.9	4838.5	4813.4	4851.0	5073.5	5386.9	5490.3	5418.2	5443.3
25°	5418.2	5267.8	4904.3	4700.6	4681.8	4703.7	4910.5	5255.3	5390.0	5314.8	5324.2
27.5°	5311.7	5148.7	4735.1	4584.6	4565.8	4575.2	4747.6	5108.0	5274.1	5198.8	5183.2
30°	5183.2	5007.7	4565.8	4427.9	4409.1	4443.6	4590.9	4957.5	5145.6	5070.4	5023.4
32.5°	5054.7	4854.1	4399.7	4293.2	4255.6	4286.9	4427.9	4800.9	5004.6	4926.2	4847.9
35°	4894.9	4691.2	4227.4	4120.8	4089.5	4124.0	4265.0	4637.9	4844.7	4766.4	4659.8
37.5°	4728.8	4518.8	4070.7	3973.6	3917.2	3957.9	4098.9	4468.7	4678.6	4597.2	4465.6
40°	4562.7	4337.1	3895.2	3794.9	3722.9	3782.4	3926.6	4290.1	4490.6	4415.4	4265.0
42.5°	4368.4	4155.3	3722.9	3581.8	3378.2	3569.3	3741.7	4111.4	4296.3	4224.3	4042.5
45°	4164.7	3961.0	3541.1	3199.5	2669.9	3230.9	3553.6	3923.4	4070.7	4001.8	3804.3
47.5°	3932.8	3760.5	3356.2	2836.0	2322.1	2867.4	3362.5	3744.8	3857.6	3782.4	3563.0
50°	3729.1	3559.9	3161.9	2528.9	2077.7	2563.4	3158.8	3544.2	3638.3	3569.3	3324.9
52.5°	3497.2	3349.9	2952.0	2256.3	1895.9	2290.8	2945.7	3337.4	3412.6	3331.1	3086.7
55°	3268.5	3136.9	2729.5	2015.0	1736.1	2046.3	2723.2	3124.3	3183.9	3089.9	2836.0
57.5°	3036.6	2917.5	2500.7	1798.8	1588.8	1833.2	2516.4	2905.0	2945.7	2826.6	2594.7
60°	2795.3	2695.0	2268.8	1607.6	1444.6	1635.8	2262.5	2685.6	2710.7	2582.2	2359.7
62.5°	2554.0	2463.1	2036.9	1432.1	1297.4	1450.9	2052.6	2453.7	2469.4	2347.2	2118.4
65°	2306.4	2221.8	1811.3	1247.2	1156.3	1278.6	1827.0	2212.4	2228.1	2090.2	1883.4
67.5°	2049.5	1980.5	1570.0	1106.2	1021.6	1115.6	1601.3	1968.0	1977.4	1842.6	1654.6
70°	1792.5	1732.9	1356.9	952.7	890.0	955.8	1378.8	1698.5	1717.3	1573.1	1422.7
72.5°	1529.3	1482.3	1150.1	792.8	736.4	792.8	1162.6	1450.9	1463.4	1344.4	1197.1
75°	1262.9	1228.4	940.1	636.1	592.3	633.0	946.4	1203.3	1203.3	1090.5	974.6
77.5°	1005.9	980.9	720.8	488.9	457.5	482.6	723.9	952.7	946.4	858.6	767.8
80°	752.1	733.3	517.1	354.1	332.2	344.7	517.1	705.1	705.1	642.4	532.7
82.5°	539.0	517.1	341.6	231.9	219.4	225.6	335.3	492.0	501.4	454.4	360.4
85°	357.2	307.1	184.9	128.5	119.1	122.2	175.5	285.2	313.4	263.2	188.0
87.5°	156.7	103.4	47.0	18.8	9.4	12.5	37.6	90.9	119.1	78.3	25.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5841.3	5841.3	5841.3	5841.3	5841.3	5841.3
2.5°	5860.1	5809.9	5828.7	5841.3	5828.7	5885.1
5°	5853.8	5831.9	5828.7	5844.4	5819.3	5875.7
7.5°	5844.4	5831.9	5828.7	5835.0	5803.7	5856.9
10°	5822.5	5803.7	5809.9	5819.3	5778.6	5828.7
12.5°	5781.7	5762.9	5766.0	5797.4	5741.0	5784.9
15°	5712.8	5690.8	5712.8	5747.2	5697.1	5734.7
17.5°	5621.9	5587.4	5625.0	5678.3	5640.7	5675.2
20°	5505.9	5452.7	5493.4	5590.6	5556.1	5600.0
22.5°	5364.9	5299.1	5339.9	5480.9	5471.5	5518.5
25°	5205.1	5126.8	5183.2	5355.5	5374.3	5418.2
27.5°	5026.5	4938.7	5014.0	5217.6	5261.5	5311.7
30°	4832.2	4738.2	4825.9	5064.1	5129.9	5183.2
32.5°	4631.6	4528.2	4628.5	4891.7	4985.8	5054.7
35°	4421.7	4315.1	4427.9	4713.1	4825.9	4894.9
37.5°	4196.1	4092.6	4214.9	4525.1	4659.8	4728.8
40°	3964.2	3848.2	3986.1	4302.6	4481.2	4562.7
42.5°	3726.0	3581.8	3751.1	4092.6	4286.9	4368.4
45°	3459.6	3259.1	3487.8	3870.1	4073.8	4164.7
47.5°	3193.3	2992.7	3224.6	3632.0	3851.3	3932.8
50°	2936.3	2763.9	2948.8	3371.9	3625.7	3729.1
52.5°	2701.3	2560.3	2716.9	3118.1	3393.8	3497.2
55°	2481.9	2372.2	2500.7	2867.4	3149.4	3268.5
57.5°	2275.1	2206.1	2293.9	2629.2	2923.8	3036.6
60°	2080.8	2033.8	2096.5	2394.2	2657.4	2795.3
62.5°	1889.6	1864.6	1911.6	2146.6	2409.8	2554.0
65°	1704.7	1698.5	1723.5	1930.4	2149.7	2306.4
67.5°	1519.9	1516.7	1532.4	1701.6	1895.9	2049.5
70°	1335.0	1353.8	1344.4	1454.0	1642.1	1792.5
72.5°	1146.9	1175.1	1159.5	1228.4	1410.2	1529.3
75°	937.0	974.6	943.3	1021.6	1134.4	1262.9
77.5°	720.8	761.5	723.9	792.8	915.0	1005.9
80°	517.1	554.7	523.3	576.6	683.2	752.1
82.5°	325.9	354.1	329.0	382.3	488.9	539.0
85°	144.2	159.8	166.1	206.8	300.8	357.2
87.5°	6.3	3.1	6.3	40.7	106.5	156.7
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)