

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: P520730

Luminaire Tested: **8WSLA-200-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520730
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-L840-UPL15-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

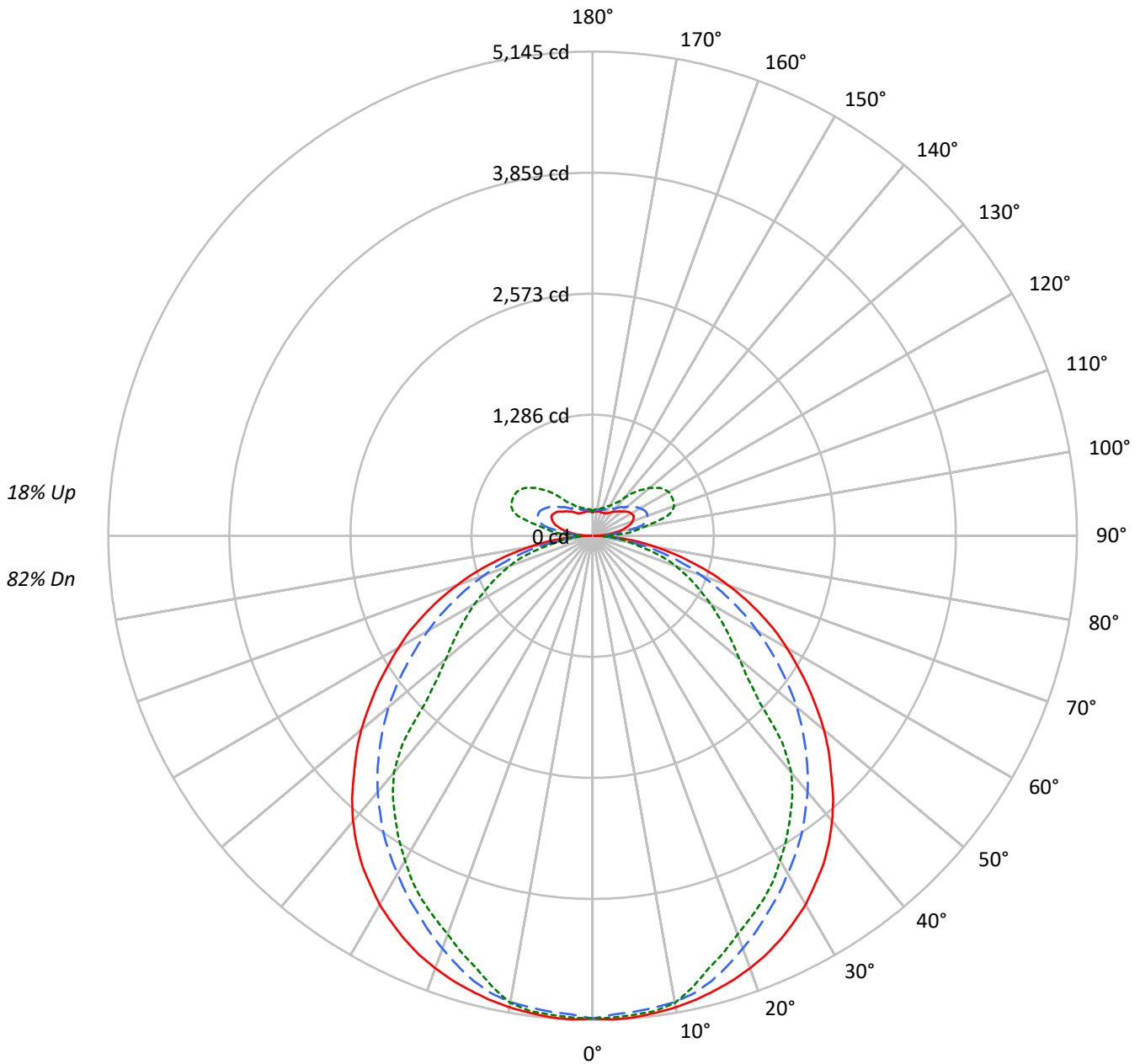
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16612.0 lumens
Efficiency: N/A
Efficacy: 109.1 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°	13803	13803	13803
5°	13870	13715	13799
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	12175	9562
50°	13437	11848	8515
55°	13106	11373	8103
60°	12823	10863	7783
65°	12521	10269	7552
70°	12033	9619	7408
75°	11359	8817	6815
80°	10400	7417	6047
85°	9315	6425	6104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.1	2.9
10°-20°	1380.9	8.3
20°-30°	2060.9	12.4
30°-40°	2455.6	14.8
40°-50°	2442.5	14.7
50°-60°	2093.3	12.6
60°-70°	1576.5	9.5
70°-80°	913.1	5.5
80°-90°	274.4	1.7
90°-100°	294.6	1.8
100°-110°	605.0	3.6
110°-120°	639.7	3.9
120°-130°	533.7	3.2
130°-140°	372.8	2.2
140°-150°	232.0	1.4
150°-160°	143.8	0.9
160°-170°	81.0	0.5
170°-180°	26.1	0.2
0°-30°	3927.9	23.6
0°-40°	6383.5	38.4
0°-60°	10919.3	65.7
0°-90°	13683.3	82.4
90°-120°	1539.3	9.3
90°-150°	2677.8	16.1
90°-180°	2929.0	17.6
0°-180°	16612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5129	5129	5129	5129	5129	
5°	5134	5119	5077	5114	5108	489
15°	5004	4999	4895	4812	4760	1414
25°	4729	4661	4411	4302	4276	2180
35°	4271	4156	3870	3720	3657	2668
45°	3584	3496	3199	2882	2513	2771
55°	2794	2752	2424	1925	1727	2497
65°	1966	1920	1613	1254	1186	1944
75°	1092	1056	848	676	656	1157
85°	302	265	208	198	198	322
90°	16	73	125	156	166	31
95°	166	224	255	375	406	159
105°	390	406	583	780	827	405
115°	484	411	619	853	936	471
125°	447	395	536	786	884	397
135°	364	395	432	583	671	284
145°	296	343	375	401	427	188
155°	270	286	307	333	338	125
165°	265	276	286	296	296	75
175°	260	265	270	276	281	25
180°	255	255	255	255	255	



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CATALOG NUMBER: 8WSLA-200-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5129.3	5129.3	5129.3	5129.3	5129.3
2.5°	5144.9	5134.5	5092.9	5134.5	5124.1
5°	5134.5	5118.9	5077.3	5113.7	5108.5
7.5°	5113.7	5103.3	5056.5	5098.1	5092.9
10°	5087.7	5072.1	5030.5	5061.7	5040.9
12.5°	5051.3	5040.9	4978.5	4952.5	4910.8
15°	5004.5	4999.3	4895.2	4812.0	4760.0
17.5°	4952.5	4931.6	4786.0	4687.1	4640.3
20°	4890.0	4858.8	4666.3	4551.9	4505.1
22.5°	4817.2	4770.4	4546.7	4437.4	4390.6
25°	4728.8	4661.1	4411.4	4302.2	4276.2
27.5°	4629.9	4551.9	4286.6	4177.3	4146.1
30°	4525.9	4427.0	4146.1	4042.1	3984.9
32.5°	4395.8	4302.2	4010.9	3891.2	3828.8
35°	4271.0	4156.5	3870.4	3719.5	3657.1
37.5°	4120.1	4005.7	3709.1	3558.3	3485.4
40°	3958.8	3844.4	3553.1	3376.2	3282.6
42.5°	3782.0	3677.9	3381.4	3168.1	2986.0
45°	3584.3	3495.8	3199.3	2882.0	2512.6
47.5°	3402.2	3319.0	3017.2	2606.3	2226.5
50°	3209.7	3131.7	2830.0	2346.2	2034.0
52.5°	2996.4	2939.2	2627.1	2122.5	1872.8
55°	2793.6	2751.9	2424.2	1924.8	1727.1
57.5°	2580.3	2538.7	2221.3	1737.5	1581.5
60°	2382.6	2341.0	2018.4	1571.1	1446.2
62.5°	2184.9	2127.7	1820.8	1409.8	1305.7
65°	1966.4	1919.6	1612.7	1253.7	1186.1
67.5°	1747.9	1706.3	1420.2	1108.1	1061.2
70°	1529.4	1493.0	1222.5	967.6	941.6
72.5°	1316.1	1269.3	1045.6	827.1	816.7
75°	1092.5	1056.0	848.0	676.3	655.5
77.5°	879.2	848.0	665.9	515.0	499.4
80°	671.1	639.9	478.6	374.6	390.2
82.5°	494.2	452.6	322.5	291.3	306.9
85°	301.7	265.3	208.1	197.7	197.7
87.5°	104.0	98.8	93.6	109.2	114.4
90°	15.6	72.8	124.9	156.1	166.5
92.5°	88.4	130.1	171.7	202.9	213.3
95°	166.5	223.7	254.9	374.6	405.8
97.5°	228.9	296.5	332.9	442.2	473.4
100°	291.3	353.7	468.2	525.4	561.8
102.5°	343.3	390.2	551.4	665.9	686.7
105°	390.2	405.8	582.6	780.3	827.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	468.2	416.2	624.3	848.0	931.2
115°	483.8	411.0	619.1	853.2	936.4
117.5°	483.8	411.0	603.4	853.2	936.4
120°	473.4	416.2	582.6	842.7	931.2
122.5°	463.0	405.8	561.8	821.9	910.4
125°	447.4	395.4	535.8	785.5	884.4
127.5°	421.4	405.8	509.8	738.7	837.5
130°	400.6	411.0	478.6	691.9	790.7
132.5°	385.0	400.6	447.4	639.9	728.3
135°	364.2	395.4	431.8	582.6	671.1
137.5°	348.5	379.8	405.8	530.6	603.4
140°	332.9	369.4	379.8	463.0	525.4
142.5°	312.1	353.7	358.9	431.8	457.8
145°	296.5	343.3	374.6	400.6	426.6
147.5°	280.9	322.5	364.2	369.4	395.4
150°	275.7	301.7	348.5	353.7	364.2
152.5°	270.5	291.3	322.5	353.7	358.9
155°	270.5	286.1	306.9	332.9	338.1
157.5°	265.3	286.1	296.5	317.3	322.5
160°	265.3	280.9	291.3	306.9	312.1
162.5°	265.3	280.9	286.1	301.7	306.9
165°	265.3	275.7	286.1	296.5	296.5
167.5°	265.3	275.7	280.9	291.3	291.3
170°	265.3	270.5	280.9	286.1	286.1
172.5°	260.1	270.5	275.7	286.1	286.1
175°	260.1	265.3	270.5	275.7	280.9
177.5°	249.7	265.3	270.5	275.7	270.5
180°	254.9	254.9	254.9	254.9	254.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	426.6	411.0	603.4	821.9	889.6
110°	452.6	416.2	619.1	837.5	920.8



(END OF REPORT)