

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: P520725

Luminaire Tested: **8WSLA-200-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-200-L830-UPL8-UNV-U
Description: 8 FOOT, 4000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

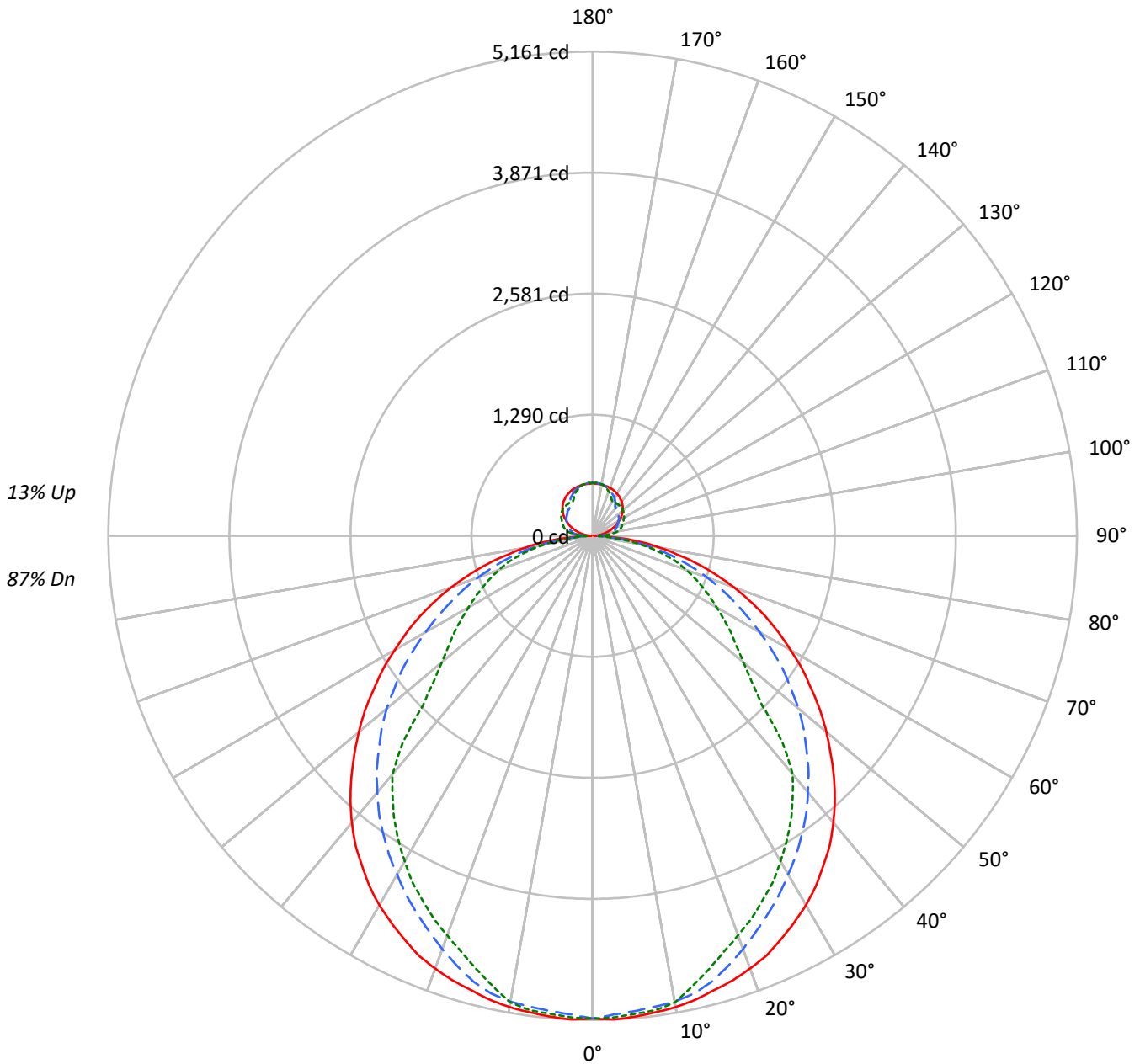
Lumens per Lamp: N/A
Luminaire Lumens: 16015.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13848	13848	13848
5°	13901	13741	13821
10°	13940	13778	13798
15°	13965	13697	13326
20°	14058	13422	12976
25°	14092	13169	12729
30°	14126	12953	12447
35°	14083	12770	12113
40°	14019	12537	11652
45°	13835	12258	9721
50°	13608	11996	8772
55°	13340	11602	8441
60°	13110	11078	8209
65°	12918	10608	8204
70°	12583	10195	8331
75°	12010	9699	8392
80°	11244	8720	7803
85°	10288	6172	5258



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.2	3.0
10°-20°	1385.0	8.6
20°-30°	2069.5	12.9
30°-40°	2470.4	15.4
40°-50°	2470.6	15.4
50°-60°	2138.2	13.4
60°-70°	1641.2	10.2
70°-80°	1005.6	6.3
80°-90°	283.1	1.8
90°-100°	160.0	1.0
100°-110°	254.0	1.6
110°-120°	296.9	1.9
120°-130°	320.5	2.0
130°-140°	315.9	2.0
140°-150°	279.4	1.7
150°-160°	230.0	1.4
160°-170°	153.9	1.0
170°-180°	53.6	0.3
0°-30°	3941.7	24.6
0°-40°	6412.1	40.0
0°-60°	11020.9	68.8
0°-90°	13950.8	87.1
90°-120°	710.9	4.4
90°-150°	1626.8	10.2
90°-180°	2064.0	12.9
0°-180°	16015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5146	5146	5146	5146	5146	
5°	5146	5131	5087	5124	5116	490
15°	5013	5005	4916	4828	4783	1418
25°	4746	4687	4435	4317	4287	2190
35°	4287	4176	3887	3747	3687	2685
45°	3636	3532	3221	2932	2554	2803
55°	2843	2777	2473	1977	1799	2549
65°	2029	1955	1666	1340	1288	2004
75°	1155	1096	933	807	807	1219
85°	333	274	200	170	170	348
90°	15	52	81	104	111	23
95°	59	126	170	178	178	58
105°	170	178	252	296	311	179
115°	281	237	296	341	363	275
125°	378	304	341	392	407	336
135°	452	407	378	415	437	348
145°	504	481	422	415	430	314
155°	533	526	496	474	466	246
165°	548	555	540	540	540	156
175°	555	563	563	570	570	53
180°	563	563	563	563	563	



TEST NUMBER: P520725

CATALOG NUMBER: 8WSLA-200-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5146.0	5146.0	5146.0	5146.0	5146.0
2.5°	5160.8	5146.0	5109.0	5146.0	5138.6
5°	5146.0	5131.2	5086.8	5123.8	5116.4
7.5°	5123.8	5109.0	5064.5	5109.0	5101.6
10°	5101.6	5086.8	5042.3	5072.0	5049.7
12.5°	5064.5	5049.7	4997.9	4960.9	4916.5
15°	5012.7	5005.3	4916.5	4827.6	4783.2
17.5°	4968.3	4946.1	4805.4	4701.7	4649.9
20°	4909.1	4872.0	4686.9	4568.5	4531.4
22.5°	4842.4	4783.2	4561.1	4450.0	4420.4
25°	4746.2	4686.9	4435.2	4316.7	4287.1
27.5°	4649.9	4575.9	4309.3	4190.8	4161.2
30°	4546.2	4442.6	4168.6	4057.6	4005.7
32.5°	4427.8	4324.1	4035.3	3909.5	3850.2
35°	4287.1	4176.0	3887.3	3746.6	3687.3
37.5°	4153.8	4035.3	3739.2	3583.7	3502.2
40°	3990.9	3872.5	3568.9	3398.6	3317.1
42.5°	3820.6	3709.6	3406.0	3198.7	2998.7
45°	3635.5	3531.9	3220.9	2932.1	2554.5
47.5°	3443.0	3354.2	3050.6	2658.1	2295.3
50°	3250.5	3161.6	2865.5	2399.0	2095.4
52.5°	3058.0	2983.9	2658.1	2184.3	1932.5
55°	2843.3	2776.6	2473.0	1977.0	1799.2
57.5°	2650.7	2584.1	2258.3	1806.7	1658.6
60°	2436.0	2376.8	2058.4	1636.4	1525.3
62.5°	2236.1	2169.5	1858.5	1488.3	1406.8
65°	2028.8	1954.7	1666.0	1340.2	1288.4
67.5°	1814.1	1740.0	1480.9	1206.9	1177.3
70°	1599.3	1540.1	1295.8	1073.6	1058.8
72.5°	1377.2	1310.6	1110.6	947.8	947.8
75°	1155.1	1095.8	932.9	807.1	807.1
77.5°	925.5	895.9	747.8	659.0	666.4
80°	725.6	688.6	562.7	503.5	503.5
82.5°	533.1	488.7	377.6	333.2	348.0
85°	333.2	274.0	199.9	170.3	170.3
87.5°	103.7	81.4	59.2	66.6	66.6
90°	14.8	51.8	81.4	103.7	111.1
92.5°	37.0	96.3	118.5	140.7	148.1
95°	59.2	125.9	170.3	177.7	177.7
97.5°	81.4	140.7	207.3	236.9	236.9
100°	111.1	148.1	222.1	266.6	274.0
102.5°	140.7	162.9	236.9	281.4	296.2
105°	170.3	177.7	251.7	296.2	311.0



TEST NUMBER: P520725

CATALOG NUMBER: 8WSLA-200-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.7	222.1	281.4	333.2	348.0
115°	281.4	236.9	296.2	340.6	362.8
117.5°	303.6	259.2	311.0	355.4	370.2
120°	325.8	274.0	318.4	370.2	385.0
122.5°	355.4	288.8	333.2	377.6	399.8
125°	377.6	303.6	340.6	392.4	407.2
127.5°	399.8	333.2	348.0	399.8	414.6
130°	414.6	362.8	355.4	407.2	422.0
132.5°	436.9	385.0	362.8	414.6	429.5
135°	451.7	407.2	377.6	414.6	436.9
137.5°	466.5	429.5	377.6	414.6	429.5
140°	481.3	451.7	385.0	414.6	429.5
142.5°	488.7	466.5	392.4	414.6	429.5
145°	503.5	481.3	422.0	414.6	429.5
147.5°	510.9	496.1	444.3	414.6	429.5
150°	518.3	510.9	466.5	422.0	422.0
152.5°	525.7	518.3	481.3	451.7	436.9
155°	533.1	525.7	496.1	473.9	466.5
157.5°	540.5	540.5	510.9	496.1	488.7
160°	540.5	547.9	525.7	510.9	503.5
162.5°	547.9	555.3	533.1	525.7	518.3
165°	547.9	555.3	540.5	540.5	540.5
167.5°	555.3	562.7	555.3	547.9	547.9
170°	555.3	562.7	555.3	555.3	555.3
172.5°	555.3	562.7	562.7	562.7	562.7
175°	555.3	562.7	562.7	570.1	570.1
177.5°	555.3	562.7	562.7	562.7	562.7
180°	562.7	562.7	562.7	562.7	562.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	199.9	192.5	259.2	311.0	325.8
110°	222.1	207.3	274.0	318.4	333.2



(END OF REPORT)