

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: P520707

Luminaire Tested: **8WSLA-175-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520707
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-175-L840-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

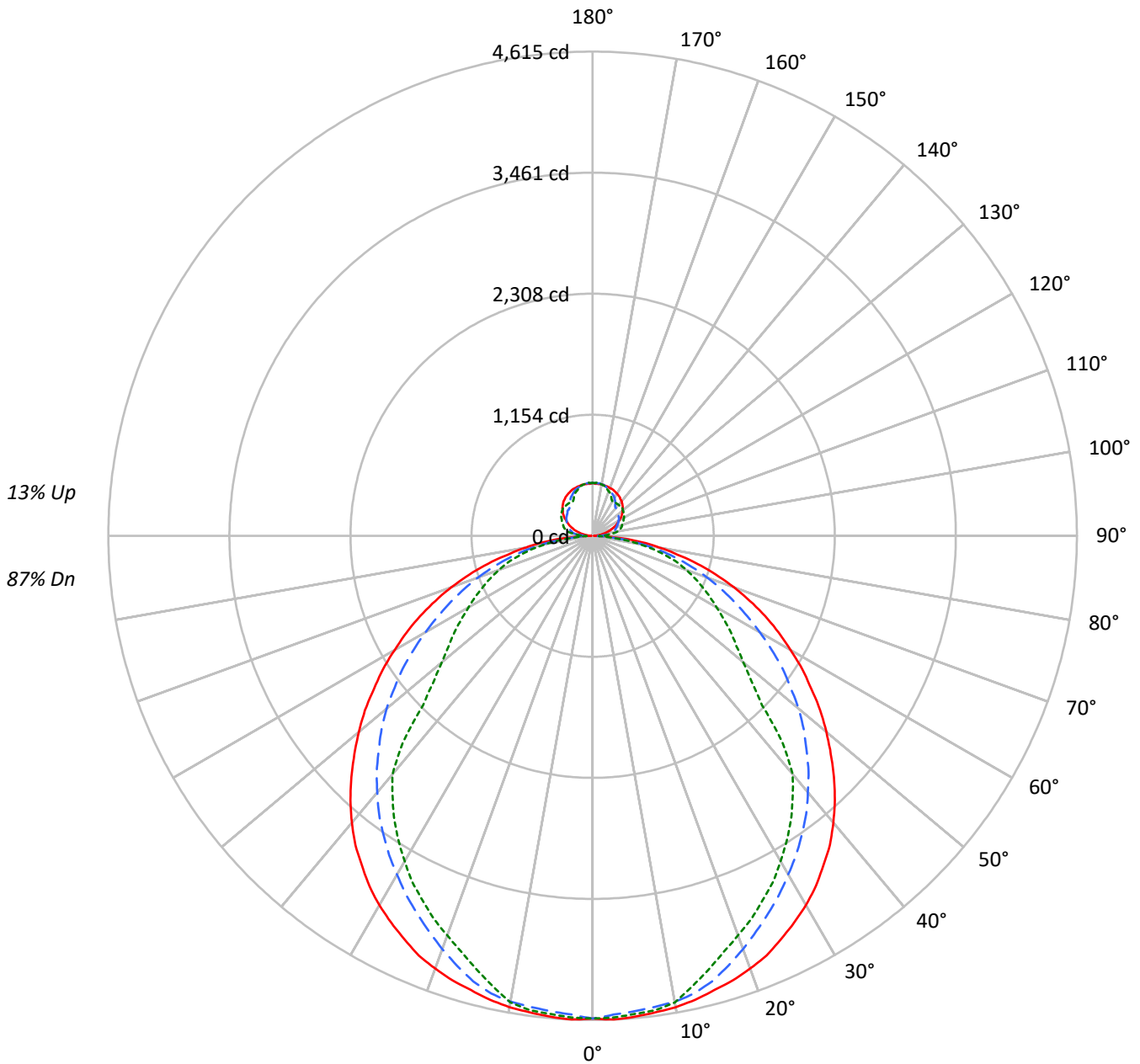
Lumens per Lamp: N/A
Luminaire Lumens: 14322.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 119
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								
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	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°	12384	12384	12384
5°	12431	12288	12360
10°	12466	12322	12340
15°	12489	12249	11917
20°	12572	12003	11605
25°	12602	11777	11383
30°	12633	11584	11131
35°	12595	11420	10833
40°	12537	11212	10421
45°	12373	10962	8694
50°	12170	10728	7845
55°	11929	10376	7549
60°	11725	9907	7341
65°	11552	9487	7337
70°	11253	9117	7450
75°	10740	8674	7505
80°	10056	7798	6978
85°	9201	5521	4702



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.7	3.0
10°-20°	1238.6	8.6
20°-30°	1850.7	12.9
30°-40°	2209.2	15.4
40°-50°	2209.4	15.4
50°-60°	1912.2	13.4
60°-70°	1467.7	10.2
70°-80°	899.3	6.3
80°-90°	253.2	1.8
90°-100°	143.1	1.0
100°-110°	227.1	1.6
110°-120°	265.5	1.9
120°-130°	286.7	2.0
130°-140°	282.5	2.0
140°-150°	249.9	1.7
150°-160°	205.7	1.4
160°-170°	137.6	1.0
170°-180°	47.9	0.3
0°-30°	3525.0	24.6
0°-40°	5734.2	40.0
0°-60°	9855.8	68.8
0°-90°	12476.0	87.1
90°-120°	635.7	4.4
90°-150°	1454.8	10.2
90°-180°	1846.0	12.9
0°-180°	14322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4602	4602	4602	4602	4602	
5°	4602	4589	4549	4582	4576	438
15°	4483	4476	4397	4317	4278	1268
25°	4244	4192	3966	3860	3834	1958
35°	3834	3735	3476	3350	3298	2401
45°	3251	3158	2880	2622	2284	2507
55°	2543	2483	2212	1768	1609	2279
65°	1814	1748	1490	1198	1152	1792
75°	1033	980	834	722	722	1090
85°	298	245	179	152	152	312
90°	13	46	73	93	99	21
95°	53	113	152	159	159	52
105°	152	159	225	265	278	160
115°	252	212	265	305	324	246
125°	338	272	305	351	364	301
135°	404	364	338	371	391	312
145°	450	430	377	371	384	281
155°	477	470	444	424	417	220
165°	490	497	483	483	483	139
175°	497	503	503	510	510	47
180°	503	503	503	503	503	



TEST NUMBER: P520707

CATALOG NUMBER: 8WSLA-175-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4602.0	4602.0	4602.0	4602.0	4602.0
2.5°	4615.2	4602.0	4568.9	4602.0	4595.4
5°	4602.0	4588.8	4549.0	4582.1	4575.5
7.5°	4582.1	4568.9	4529.2	4568.9	4562.3
10°	4562.3	4549.0	4509.3	4535.8	4515.9
12.5°	4529.2	4515.9	4469.6	4436.5	4396.7
15°	4482.8	4476.2	4396.7	4317.3	4277.5
17.5°	4443.1	4423.2	4297.4	4204.7	4158.4
20°	4390.1	4357.0	4191.5	4085.5	4052.4
22.5°	4330.5	4277.5	4078.9	3979.6	3953.1
25°	4244.4	4191.5	3966.3	3860.4	3833.9
27.5°	4158.4	4092.1	3853.8	3747.8	3721.3
30°	4065.6	3972.9	3727.9	3628.6	3582.3
32.5°	3959.7	3867.0	3608.8	3496.2	3443.2
35°	3833.9	3734.6	3476.3	3350.5	3297.5
37.5°	3714.7	3608.8	3343.9	3204.8	3132.0
40°	3569.0	3463.1	3191.6	3039.3	2966.5
42.5°	3416.7	3317.4	3045.9	2860.5	2681.7
45°	3251.2	3158.5	2880.4	2622.1	2284.4
47.5°	3079.0	2999.6	2728.1	2377.1	2052.7
50°	2906.9	2827.4	2562.6	2145.4	1873.9
52.5°	2734.7	2668.5	2377.1	1953.4	1728.2
55°	2542.7	2483.1	2211.6	1768.0	1609.0
57.5°	2370.5	2310.9	2019.6	1615.7	1483.2
60°	2178.5	2125.5	1840.8	1463.4	1364.0
62.5°	1999.7	1940.1	1662.0	1330.9	1258.1
65°	1814.3	1748.1	1489.9	1198.5	1152.2
67.5°	1622.3	1556.1	1324.3	1079.3	1052.8
70°	1430.3	1377.3	1158.8	960.1	946.9
72.5°	1231.6	1172.0	993.2	847.6	847.6
75°	1033.0	980.0	834.3	721.8	721.8
77.5°	827.7	801.2	668.8	589.3	595.9
80°	648.9	615.8	503.2	450.3	450.3
82.5°	476.8	437.0	337.7	298.0	311.2
85°	298.0	245.0	178.8	152.3	152.3
87.5°	92.7	72.8	53.0	59.6	59.6
90°	13.2	46.4	72.8	92.7	99.3
92.5°	33.1	86.1	105.9	125.8	132.4
95°	53.0	112.6	152.3	158.9	158.9
97.5°	72.8	125.8	185.4	211.9	211.9
100°	99.3	132.4	198.6	238.4	245.0
102.5°	125.8	145.7	211.9	251.6	264.9
105°	152.3	158.9	225.1	264.9	278.1



TEST NUMBER: P520707

CATALOG NUMBER: 8WSLA-175-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.1	198.6	251.6	298.0	311.2
115°	251.6	211.9	264.9	304.6	324.5
117.5°	271.5	231.8	278.1	317.8	331.1
120°	291.3	245.0	284.7	331.1	344.3
122.5°	317.8	258.2	298.0	337.7	357.6
125°	337.7	271.5	304.6	350.9	364.2
127.5°	357.6	298.0	311.2	357.6	370.8
130°	370.8	324.5	317.8	364.2	377.4
132.5°	390.7	344.3	324.5	370.8	384.1
135°	403.9	364.2	337.7	370.8	390.7
137.5°	417.2	384.1	337.7	370.8	384.1
140°	430.4	403.9	344.3	370.8	384.1
142.5°	437.0	417.2	350.9	370.8	384.1
145°	450.3	430.4	377.4	370.8	384.1
147.5°	456.9	443.6	397.3	370.8	384.1
150°	463.5	456.9	417.2	377.4	377.4
152.5°	470.1	463.5	430.4	403.9	390.7
155°	476.8	470.1	443.6	423.8	417.2
157.5°	483.4	483.4	456.9	443.6	437.0
160°	483.4	490.0	470.1	456.9	450.3
162.5°	490.0	496.6	476.8	470.1	463.5
165°	490.0	496.6	483.4	483.4	483.4
167.5°	496.6	503.2	496.6	490.0	490.0
170°	496.6	503.2	496.6	496.6	496.6
172.5°	496.6	503.2	503.2	503.2	503.2
175°	496.6	503.2	503.2	509.9	509.9
177.5°	496.6	503.2	503.2	503.2	503.2
180°	503.2	503.2	503.2	503.2	503.2



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	178.8	172.2	231.8	278.1	291.3
110°	198.6	185.4	245.0	284.7	298.0



(END OF REPORT)