

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: P520713

Luminaire Tested: **8WSLA-175-L930-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520713
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-L930-UPL8-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

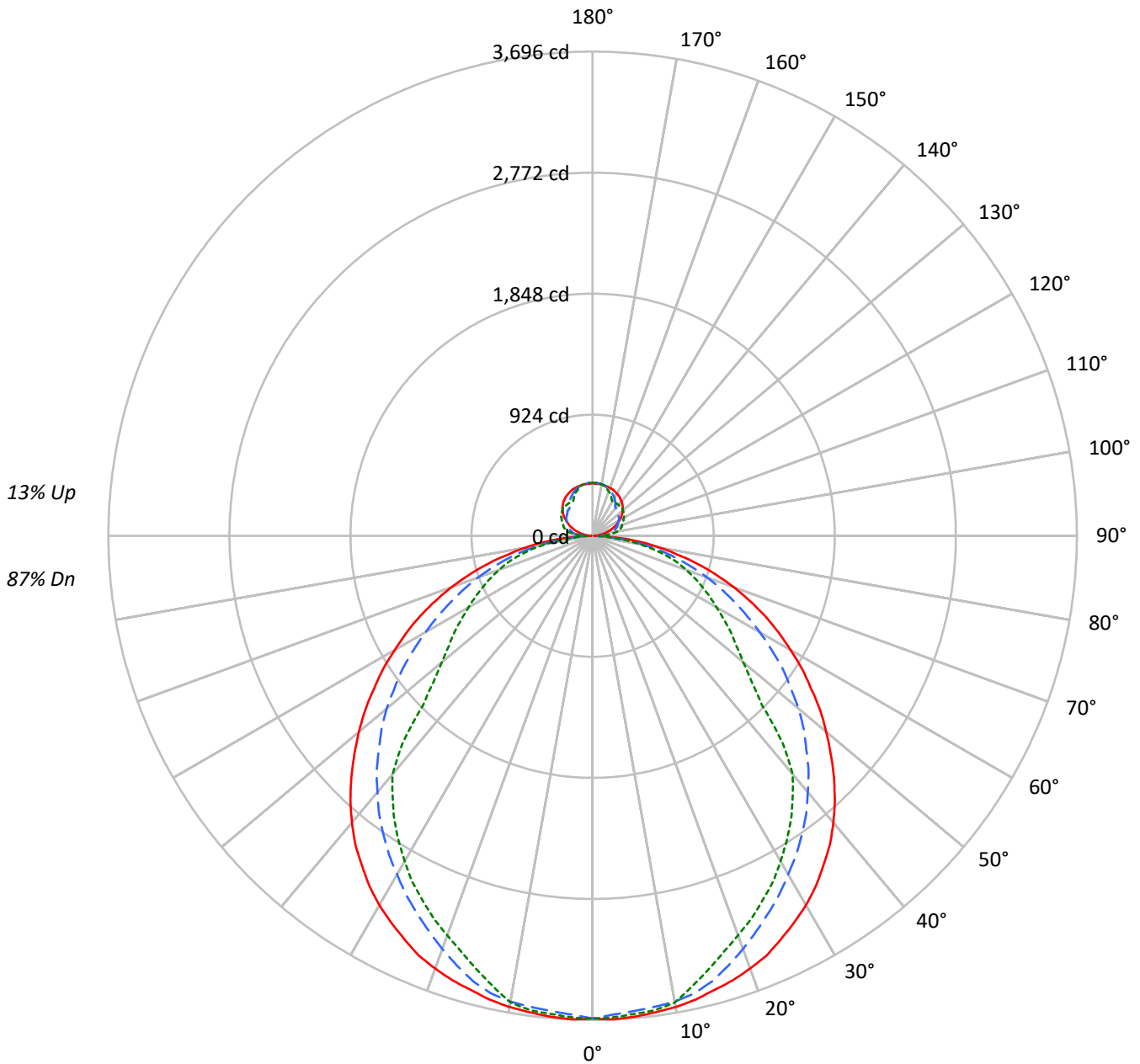
Lumens per Lamp: N/A
Luminaire Lumens: 11468.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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									
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°	9916	9916	9916
5°	9954	9839	9897
10°	9982	9866	9881
15°	10000	9808	9542
20°	10067	9611	9292
25°	10091	9430	9115
30°	10116	9276	8913
35°	10085	9144	8674
40°	10039	8977	8344
45°	9907	8777	6961
50°	9744	8590	6282
55°	9552	8308	6045
60°	9388	7933	5878
65°	9251	7596	5875
70°	9010	7301	5965
75°	8599	6946	6009
80°	8052	6245	5587
85°	7367	4421	3764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	3.0
10°-20°	991.8	8.6
20°-30°	1481.9	12.9
30°-40°	1769.0	15.4
40°-50°	1769.2	15.4
50°-60°	1531.1	13.4
60°-70°	1175.2	10.2
70°-80°	720.1	6.3
80°-90°	202.7	1.8
90°-100°	114.6	1.0
100°-110°	181.9	1.6
110°-120°	212.6	1.9
120°-130°	229.5	2.0
130°-140°	226.2	2.0
140°-150°	200.1	1.7
150°-160°	164.7	1.4
160°-170°	110.2	1.0
170°-180°	38.4	0.3
0°-30°	2822.5	24.6
0°-40°	4591.5	40.0
0°-60°	7891.8	68.8
0°-90°	9989.8	87.1
90°-120°	509.1	4.4
90°-150°	1164.9	10.2
90°-180°	1478.0	12.9
0°-180°	11468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3685	3685	3685	3685	3685	
5°	3685	3674	3642	3669	3664	351
15°	3590	3584	3521	3457	3425	1016
25°	3399	3356	3176	3091	3070	1568
35°	3070	2990	2784	2683	2640	1922
45°	2603	2529	2306	2100	1829	2007
55°	2036	1988	1771	1416	1288	1825
65°	1453	1400	1193	960	923	1435
75°	827	785	668	578	578	873
85°	239	196	143	122	122	249
90°	11	37	58	74	80	17
95°	42	90	122	127	127	42
105°	122	127	180	212	223	128
115°	202	170	212	244	260	197
125°	270	217	244	281	292	241
135°	323	292	270	297	313	249
145°	360	345	302	297	308	225
155°	382	376	355	339	334	176
165°	392	398	387	387	387	111
175°	398	403	403	408	408	38
180°	403	403	403	403	403	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3684.9	3684.9	3684.9	3684.9	3684.9
2.5°	3695.5	3684.9	3658.4	3684.9	3679.6
5°	3684.9	3674.3	3642.5	3669.0	3663.7
7.5°	3669.0	3658.4	3626.6	3658.4	3653.1
10°	3653.1	3642.5	3610.7	3631.9	3616.0
12.5°	3626.6	3616.0	3578.9	3552.4	3520.6
15°	3589.5	3584.2	3520.6	3456.9	3425.1
17.5°	3557.7	3541.8	3441.0	3366.8	3329.7
20°	3515.3	3488.8	3356.2	3271.4	3244.9
22.5°	3467.6	3425.1	3266.1	3186.5	3165.3
25°	3398.6	3356.2	3175.9	3091.1	3069.9
27.5°	3329.7	3276.7	3085.8	3001.0	2979.8
30°	3255.5	3181.2	2985.1	2905.5	2868.4
32.5°	3170.6	3096.4	2889.6	2799.5	2757.1
35°	3069.9	2990.4	2783.6	2682.8	2640.4
37.5°	2974.5	2889.6	2677.5	2566.2	2507.9
40°	2857.8	2773.0	2555.6	2433.6	2375.3
42.5°	2735.9	2656.3	2439.0	2290.5	2147.3
45°	2603.3	2529.1	2306.4	2099.6	1829.2
47.5°	2465.5	2401.8	2184.5	1903.4	1643.6
50°	2327.6	2264.0	2051.9	1717.9	1500.5
52.5°	2189.8	2136.7	1903.4	1564.1	1383.8
55°	2036.0	1988.3	1770.9	1415.7	1288.4
57.5°	1898.1	1850.4	1617.1	1293.7	1187.7
60°	1744.4	1702.0	1474.0	1171.8	1092.2
62.5°	1601.2	1553.5	1330.8	1065.7	1007.4
65°	1452.8	1399.7	1193.0	959.7	922.6
67.5°	1299.0	1246.0	1060.4	864.2	843.0
70°	1145.2	1102.8	927.9	768.8	758.2
72.5°	986.2	938.5	795.3	678.7	678.7
75°	827.1	784.7	668.1	577.9	577.9
77.5°	662.8	641.6	535.5	471.9	477.2
80°	519.6	493.1	403.0	360.5	360.5
82.5°	381.7	349.9	270.4	238.6	249.2
85°	238.6	196.2	143.2	121.9	121.9
87.5°	74.2	58.3	42.4	47.7	47.7
90°	10.6	37.1	58.3	74.2	79.5
92.5°	26.5	68.9	84.8	100.7	106.0
95°	42.4	90.1	121.9	127.2	127.2
97.5°	58.3	100.7	148.5	169.7	169.7
100°	79.5	106.0	159.1	190.9	196.2
102.5°	100.7	116.6	169.7	201.5	212.1
105°	121.9	127.2	180.3	212.1	222.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.3	159.1	201.5	238.6	249.2
115°	201.5	169.7	212.1	243.9	259.8
117.5°	217.4	185.6	222.7	254.5	265.1
120°	233.3	196.2	228.0	265.1	275.7
122.5°	254.5	206.8	238.6	270.4	286.3
125°	270.4	217.4	243.9	281.0	291.6
127.5°	286.3	238.6	249.2	286.3	296.9
130°	296.9	259.8	254.5	291.6	302.2
132.5°	312.8	275.7	259.8	296.9	307.5
135°	323.4	291.6	270.4	296.9	312.8
137.5°	334.0	307.5	270.4	296.9	307.5
140°	344.6	323.4	275.7	296.9	307.5
142.5°	349.9	334.0	281.0	296.9	307.5
145°	360.5	344.6	302.2	296.9	307.5
147.5°	365.8	355.2	318.1	296.9	307.5
150°	371.1	365.8	334.0	302.2	302.2
152.5°	376.4	371.1	344.6	323.4	312.8
155°	381.7	376.4	355.2	339.3	334.0
157.5°	387.1	387.1	365.8	355.2	349.9
160°	387.1	392.4	376.4	365.8	360.5
162.5°	392.4	397.7	381.7	376.4	371.1
165°	392.4	397.7	387.1	387.1	387.1
167.5°	397.7	403.0	397.7	392.4	392.4
170°	397.7	403.0	397.7	397.7	397.7
172.5°	397.7	403.0	403.0	403.0	403.0
175°	397.7	403.0	403.0	408.3	408.3
177.5°	397.7	403.0	403.0	403.0	403.0
180°	403.0	403.0	403.0	403.0	403.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	143.2	137.9	185.6	222.7	233.3
110°	159.1	148.5	196.2	228.0	238.6



(END OF REPORT)