

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: P520700

Luminaire Tested: **8WSLA-175-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520700
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-175-L830-UPL15-UNV-U
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

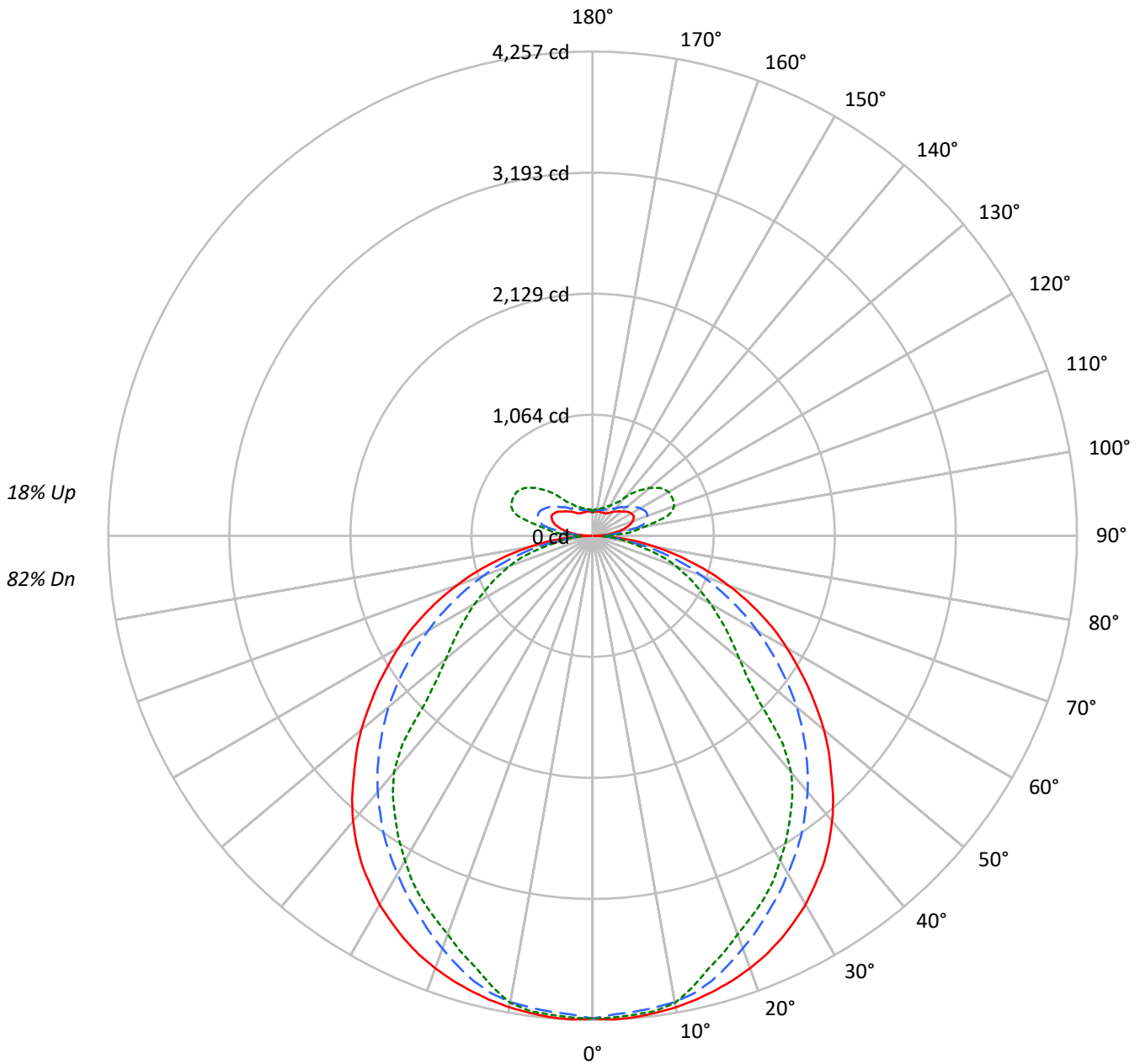
Lumens per Lamp: N/A
Luminaire Lumens: 13745.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	11421	11421	11421
5°	11476	11348	11418
10°	11503	11373	11397
15°	11536	11284	10972
20°	11587	11057	10675
25°	11617	10838	10506
30°	11636	10660	10245
35°	11609	10520	9940
40°	11507	10327	9541
45°	11286	10074	7912
50°	11118	9803	7046
55°	10844	9410	6704
60°	10610	8988	6440
65°	10360	8496	6249
70°	9957	7958	6130
75°	9398	7295	5638
80°	8605	6137	5002
85°	7710	5317	5051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	2.9
10°-20°	1142.6	8.3
20°-30°	1705.2	12.4
30°-40°	2031.8	14.8
40°-50°	2021.0	14.7
50°-60°	1732.0	12.6
60°-70°	1304.4	9.5
70°-80°	755.5	5.5
80°-90°	227.1	1.7
90°-100°	243.8	1.8
100°-110°	500.6	3.6
110°-120°	529.3	3.9
120°-130°	441.6	3.2
130°-140°	308.4	2.2
140°-150°	192.0	1.4
150°-160°	119.0	0.9
160°-170°	67.0	0.5
170°-180°	21.6	0.2
0°-30°	3250.0	23.6
0°-40°	5281.8	38.4
0°-60°	9034.8	65.7
0°-90°	11321.8	82.4
90°-120°	1273.6	9.3
90°-150°	2215.6	16.1
90°-180°	2423.0	17.6
0°-180°	13745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4244	4244	4244	4244	4244	
5°	4248	4236	4201	4231	4227	404
15°	4141	4136	4050	3982	3938	1170
25°	3913	3857	3650	3560	3538	1804
35°	3534	3439	3202	3078	3026	2207
45°	2966	2892	2647	2385	2079	2293
55°	2311	2277	2006	1593	1429	2066
65°	1627	1588	1334	1037	981	1608
75°	904	874	702	560	542	957
85°	250	220	172	164	164	266
90°	13	60	103	129	138	25
95°	138	185	211	310	336	132
105°	323	336	482	646	684	335
115°	400	340	512	706	775	390
125°	370	327	443	650	732	329
135°	301	327	357	482	555	235
145°	245	284	310	331	353	156
155°	224	237	254	276	280	103
165°	220	228	237	245	245	62
175°	215	220	224	228	232	21
180°	211	211	211	211	211	



TEST NUMBER: P520700

CATALOG NUMBER: 8WSLA-175-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4244.1	4244.1	4244.1	4244.1	4244.1
2.5°	4257.0	4248.4	4213.9	4248.4	4239.8
5°	4248.4	4235.5	4201.0	4231.2	4226.9
7.5°	4231.2	4222.6	4183.8	4218.2	4213.9
10°	4209.6	4196.7	4162.3	4188.1	4170.9
12.5°	4179.5	4170.9	4119.2	4097.7	4063.3
15°	4140.8	4136.5	4050.4	3981.5	3938.5
17.5°	4097.7	4080.5	3960.0	3878.2	3839.5
20°	4046.1	4020.2	3861.0	3766.3	3727.6
22.5°	3985.8	3947.1	3762.0	3671.6	3632.9
25°	3912.6	3856.7	3650.1	3559.7	3538.2
27.5°	3830.9	3766.3	3546.8	3456.4	3430.6
30°	3744.8	3663.0	3430.6	3344.5	3297.1
32.5°	3637.2	3559.7	3318.6	3219.6	3168.0
35°	3533.9	3439.2	3202.4	3077.6	3025.9
37.5°	3409.0	3314.3	3069.0	2944.2	2883.9
40°	3275.6	3180.9	2939.9	2793.5	2716.0
42.5°	3129.3	3043.2	2797.8	2621.3	2470.7
45°	2965.7	2892.5	2647.2	2384.6	2079.0
47.5°	2815.0	2746.2	2496.5	2156.5	1842.3
50°	2655.8	2591.2	2341.6	1941.3	1683.0
52.5°	2479.3	2431.9	2173.7	1756.2	1549.6
55°	2311.4	2277.0	2005.8	1592.6	1429.0
57.5°	2135.0	2100.5	1838.0	1437.6	1308.5
60°	1971.4	1937.0	1670.1	1299.9	1196.6
62.5°	1807.8	1760.5	1506.5	1166.5	1080.4
65°	1627.0	1588.3	1334.3	1037.3	981.4
67.5°	1446.3	1411.8	1175.1	916.8	878.1
70°	1265.5	1235.3	1011.5	800.6	779.1
72.5°	1089.0	1050.3	865.2	684.4	675.8
75°	903.9	873.8	701.6	559.6	542.3
77.5°	727.4	701.6	551.0	426.1	413.2
80°	555.3	529.4	396.0	309.9	322.8
82.5°	408.9	374.5	266.9	241.0	254.0
85°	249.7	219.5	172.2	163.6	163.6
87.5°	86.1	81.8	77.5	90.4	94.7
90°	12.9	60.3	103.3	129.1	137.7
92.5°	73.2	107.6	142.0	167.9	176.5
95°	137.7	185.1	210.9	309.9	335.7
97.5°	189.4	245.3	275.5	365.9	391.7
100°	241.0	292.7	387.4	434.7	464.9
102.5°	284.1	322.8	456.3	551.0	568.2
105°	322.8	335.7	482.1	645.7	684.4



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CATALOG NUMBER: 8WSLA-175-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.4	344.3	516.5	701.6	770.5
115°	400.3	340.0	512.2	705.9	774.8
117.5°	400.3	340.0	499.3	705.9	774.8
120°	391.7	344.3	482.1	697.3	770.5
122.5°	383.1	335.7	464.9	680.1	753.3
125°	370.2	327.1	443.3	650.0	731.7
127.5°	348.7	335.7	421.8	611.2	693.0
130°	331.4	340.0	396.0	572.5	654.3
132.5°	318.5	331.4	370.2	529.4	602.6
135°	301.3	327.1	357.3	482.1	555.3
137.5°	288.4	314.2	335.7	439.0	499.3
140°	275.5	305.6	314.2	383.1	434.7
142.5°	258.3	292.7	297.0	357.3	378.8
145°	245.3	284.1	309.9	331.4	353.0
147.5°	232.4	266.9	301.3	305.6	327.1
150°	228.1	249.7	288.4	292.7	301.3
152.5°	223.8	241.0	266.9	292.7	297.0
155°	223.8	236.7	254.0	275.5	279.8
157.5°	219.5	236.7	245.3	262.6	266.9
160°	219.5	232.4	241.0	254.0	258.3
162.5°	219.5	232.4	236.7	249.7	254.0
165°	219.5	228.1	236.7	245.3	245.3
167.5°	219.5	228.1	232.4	241.0	241.0
170°	219.5	223.8	232.4	236.7	236.7
172.5°	215.2	223.8	228.1	236.7	236.7
175°	215.2	219.5	223.8	228.1	232.4
177.5°	206.6	219.5	223.8	228.1	223.8
180°	210.9	210.9	210.9	210.9	210.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	353.0	340.0	499.3	680.1	736.0
110°	374.5	344.3	512.2	693.0	761.9



(END OF REPORT)