

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: P520602

Luminaire Tested: **4WSLA-50-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520602
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: 4WSLA-50-L950-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

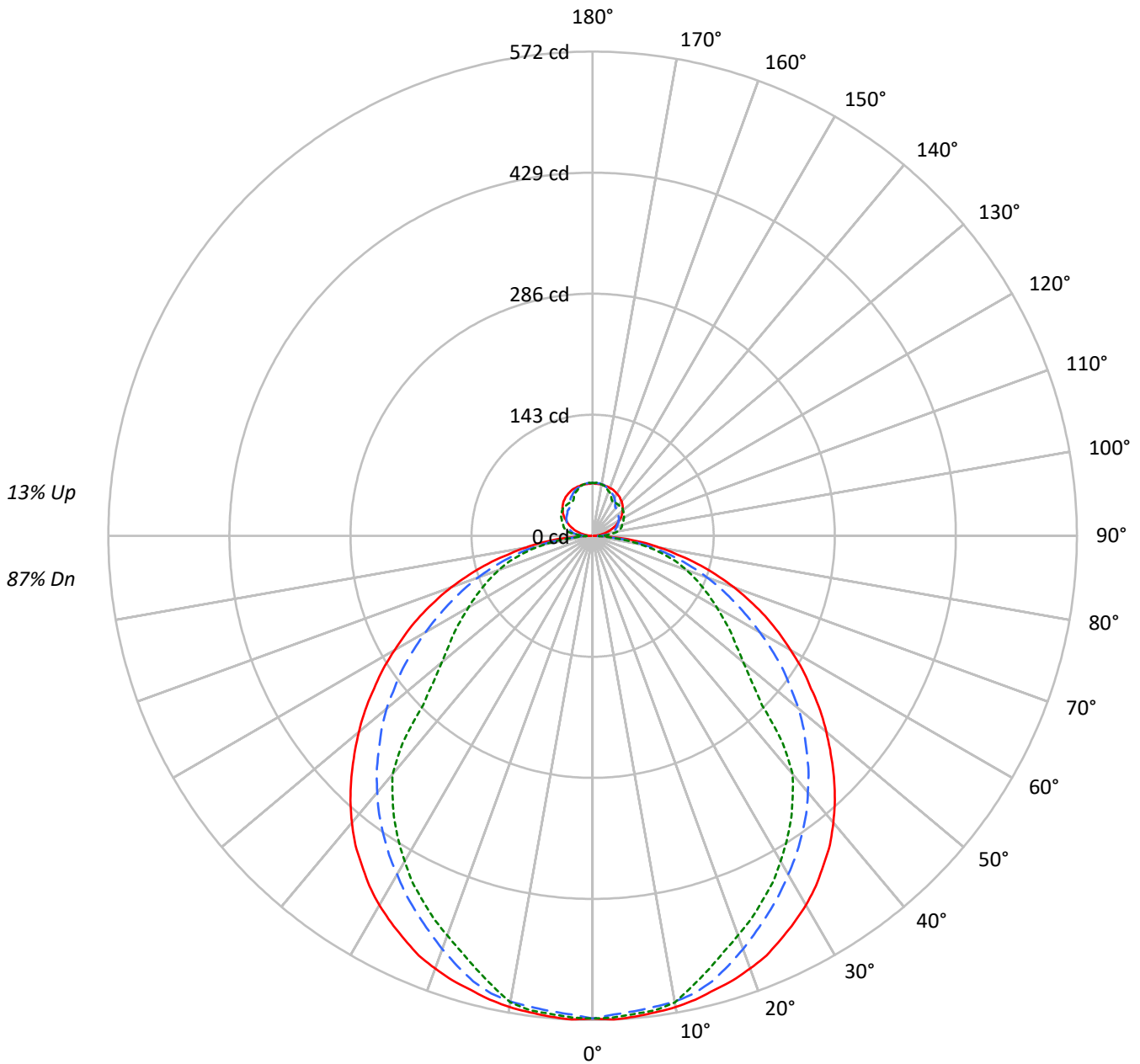
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1775.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 15.6
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

TEST NUMBER: P520602
CATALOG NUMBER: 4WSLA-50-L950-UPL8-UNV-U

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°	3069	3069	3069
5°	3081	3046	3064
10°	3090	3054	3059
15°	3096	3036	2954
20°	3116	2975	2876
25°	3124	2919	2822
30°	3132	2871	2759
35°	3122	2830	2685
40°	3107	2779	2583
45°	3067	2717	2155
50°	3017	2659	1944
55°	2957	2572	1871
60°	2906	2455	1820
65°	2864	2351	1819
70°	2790	2260	1847
75°	2662	2150	1861
80°	2492	1934	1729
85°	2279	1371	1167



TEST NUMBER: P520602

CATALOG NUMBER: 4WSLA-50-L950-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	3.0
10°-20°	153.5	8.6
20°-30°	229.4	12.9
30°-40°	273.8	15.4
40°-50°	273.8	15.4
50°-60°	237.0	13.4
60°-70°	181.9	10.2
70°-80°	111.5	6.3
80°-90°	31.4	1.8
90°-100°	17.7	1.0
100°-110°	28.2	1.6
110°-120°	32.9	1.9
120°-130°	35.5	2.0
130°-140°	35.0	2.0
140°-150°	31.0	1.7
150°-160°	25.5	1.4
160°-170°	17.1	1.0
170°-180°	5.9	0.3
0°-30°	436.9	24.6
0°-40°	710.7	40.0
0°-60°	1221.5	68.8
0°-90°	1546.2	87.1
90°-120°	78.8	4.4
90°-150°	180.3	10.2
90°-180°	229.0	12.9
0°-180°	1775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	570	569	564	568	567	54
15°	556	555	545	535	530	157
25°	526	520	492	478	475	243
35°	475	463	431	415	409	298
45°	403	391	357	325	283	311
55°	315	308	274	219	199	282
65°	225	217	185	148	143	222
75°	128	122	103	90	90	135
85°	37	30	22	19	19	39
90°	2	6	9	12	12	3
95°	7	14	19	20	20	6
105°	19	20	28	33	34	20
115°	31	26	33	38	40	30
125°	42	34	38	44	45	37
135°	50	45	42	46	48	39
145°	56	53	47	46	48	35
155°	59	58	55	52	52	27
165°	61	62	60	60	60	17
175°	62	62	62	63	63	6
180°	62	62	62	62	62	



TEST NUMBER: P520602

CATALOG NUMBER: 4WSLA-50-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.3	570.3	570.3	570.3	570.3
2.5°	572.0	570.3	566.2	570.3	569.5
5°	570.3	568.7	563.8	567.9	567.1
7.5°	567.9	566.2	561.3	566.2	565.4
10°	565.4	563.8	558.9	562.1	559.7
12.5°	561.3	559.7	553.9	549.8	544.9
15°	555.6	554.8	544.9	535.1	530.1
17.5°	550.7	548.2	532.6	521.1	515.4
20°	544.1	540.0	519.5	506.3	502.2
22.5°	536.7	530.1	505.5	493.2	489.9
25°	526.0	519.5	491.6	478.4	475.2
27.5°	515.4	507.2	477.6	464.5	461.2
30°	503.9	492.4	462.0	449.7	444.0
32.5°	490.7	479.3	447.3	433.3	426.7
35°	475.2	462.8	430.8	415.2	408.7
37.5°	460.4	447.3	414.4	397.2	388.2
40°	442.3	429.2	395.6	376.7	367.6
42.5°	423.5	411.1	377.5	354.5	332.4
45°	402.9	391.4	357.0	325.0	283.1
47.5°	381.6	371.8	338.1	294.6	254.4
50°	360.3	350.4	317.6	265.9	232.2
52.5°	338.9	330.7	294.6	242.1	214.2
55°	315.1	307.7	274.1	219.1	199.4
57.5°	293.8	286.4	250.3	200.2	183.8
60°	270.0	263.4	228.1	181.4	169.1
62.5°	247.8	240.4	206.0	164.9	155.9
65°	224.9	216.7	184.6	148.5	142.8
67.5°	201.1	192.9	164.1	133.8	130.5
70°	177.3	170.7	143.6	119.0	117.4
72.5°	152.6	145.3	123.1	105.0	105.0
75°	128.0	121.5	103.4	89.5	89.5
77.5°	102.6	99.3	82.9	73.0	73.9
80°	80.4	76.3	62.4	55.8	55.8
82.5°	59.1	54.2	41.9	36.9	38.6
85°	36.9	30.4	22.2	18.9	18.9
87.5°	11.5	9.0	6.6	7.4	7.4
90°	1.6	5.7	9.0	11.5	12.3
92.5°	4.1	10.7	13.1	15.6	16.4
95°	6.6	14.0	18.9	19.7	19.7
97.5°	9.0	15.6	23.0	26.3	26.3
100°	12.3	16.4	24.6	29.5	30.4
102.5°	15.6	18.1	26.3	31.2	32.8
105°	18.9	19.7	27.9	32.8	34.5



TEST NUMBER: P520602

CATALOG NUMBER: 4WSLA-50-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.9	24.6	31.2	36.9	38.6
115°	31.2	26.3	32.8	37.7	40.2
117.5°	33.6	28.7	34.5	39.4	41.0
120°	36.1	30.4	35.3	41.0	42.7
122.5°	39.4	32.0	36.9	41.9	44.3
125°	41.9	33.6	37.7	43.5	45.1
127.5°	44.3	36.9	38.6	44.3	46.0
130°	46.0	40.2	39.4	45.1	46.8
132.5°	48.4	42.7	40.2	46.0	47.6
135°	50.1	45.1	41.9	46.0	48.4
137.5°	51.7	47.6	41.9	46.0	47.6
140°	53.3	50.1	42.7	46.0	47.6
142.5°	54.2	51.7	43.5	46.0	47.6
145°	55.8	53.3	46.8	46.0	47.6
147.5°	56.6	55.0	49.2	46.0	47.6
150°	57.4	56.6	51.7	46.8	46.8
152.5°	58.3	57.4	53.3	50.1	48.4
155°	59.1	58.3	55.0	52.5	51.7
157.5°	59.9	59.9	56.6	55.0	54.2
160°	59.9	60.7	58.3	56.6	55.8
162.5°	60.7	61.5	59.1	58.3	57.4
165°	60.7	61.5	59.9	59.9	59.9
167.5°	61.5	62.4	61.5	60.7	60.7
170°	61.5	62.4	61.5	61.5	61.5
172.5°	61.5	62.4	62.4	62.4	62.4
175°	61.5	62.4	62.4	63.2	63.2
177.5°	61.5	62.4	62.4	62.4	62.4
180°	62.4	62.4	62.4	62.4	62.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	22.2	21.3	28.7	34.5	36.1
110°	24.6	23.0	30.4	35.3	36.9



(END OF REPORT)