

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: P520581

Luminaire Tested: **4WSLA-50-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520581
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-L830-UPL8-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

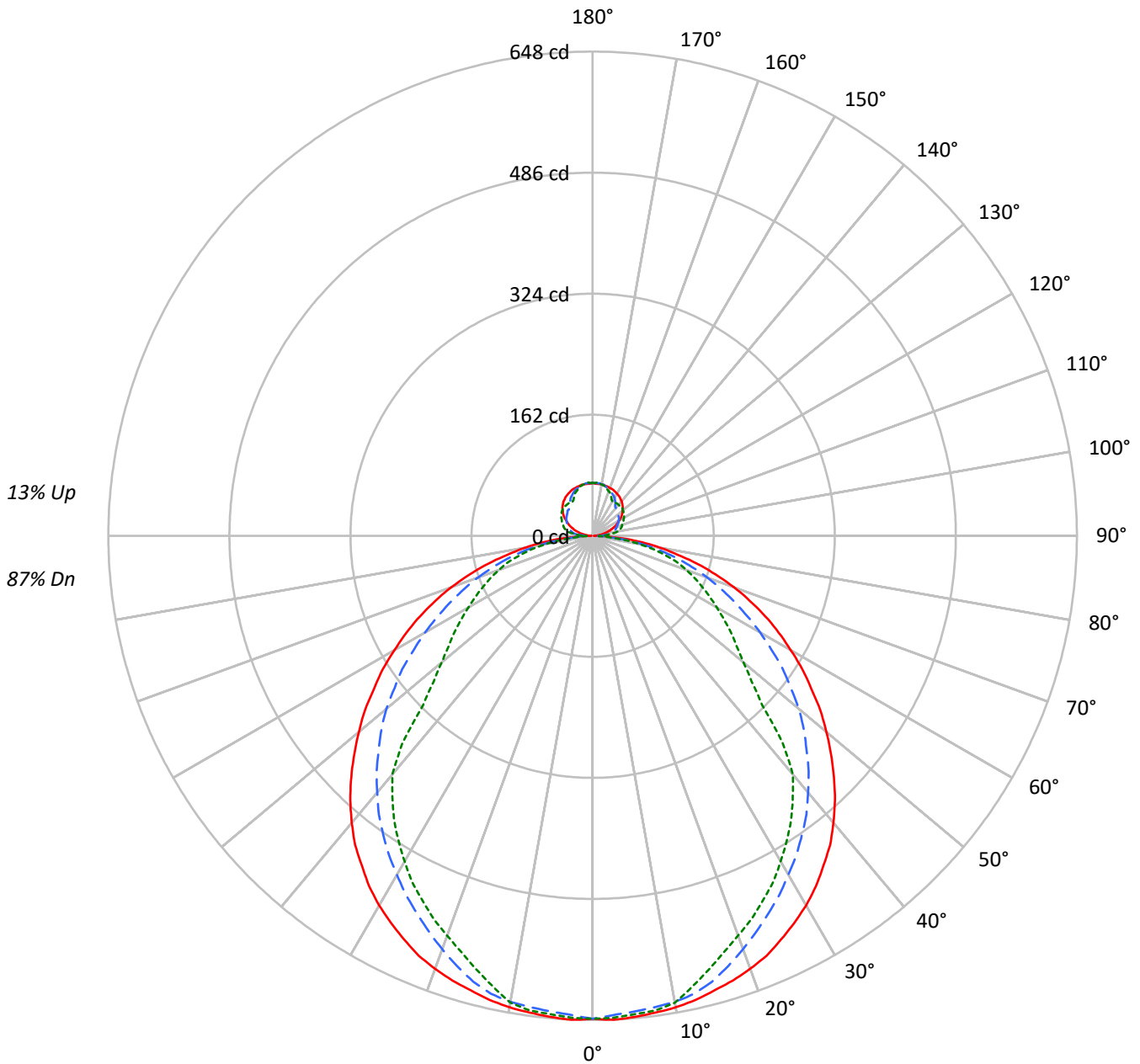
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2012.0 lumens
Efficiency: N/A
Efficacy: 129.0 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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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			87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73			73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61			61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51			51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44			44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38			38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33			33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30			30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3479	3479	3479
5°	3493	3453	3473
10°	3503	3462	3467
15°	3509	3442	3348
20°	3532	3372	3261
25°	3541	3309	3198
30°	3550	3255	3127
35°	3539	3209	3043
40°	3523	3150	2928
45°	3476	3080	2442
50°	3419	3014	2205
55°	3352	2915	2121
60°	3294	2784	2062
65°	3246	2665	2062
70°	3161	2562	2093
75°	3017	2437	2109
80°	2827	2191	1962
85°	2587	1550	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.0
10°-20°	174.0	8.6
20°-30°	260.0	12.9
30°-40°	310.4	15.4
40°-50°	310.4	15.4
50°-60°	268.6	13.4
60°-70°	206.2	10.2
70°-80°	126.3	6.3
80°-90°	35.6	1.8
90°-100°	20.1	1.0
100°-110°	31.9	1.6
110°-120°	37.3	1.9
120°-130°	40.3	2.0
130°-140°	39.7	2.0
140°-150°	35.1	1.7
150°-160°	28.9	1.4
160°-170°	19.3	1.0
170°-180°	6.7	0.3
0°-30°	495.2	24.6
0°-40°	805.6	40.0
0°-60°	1384.6	68.8
0°-90°	1752.7	87.1
90°-120°	89.3	4.4
90°-150°	204.4	10.2
90°-180°	259.0	12.9
0°-180°	2012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	646	645	639	644	643	62
15°	630	629	618	606	601	178
25°	596	589	557	542	539	275
35°	539	525	488	471	463	337
45°	457	444	405	368	321	352
55°	357	349	311	248	226	320
65°	255	246	209	168	162	252
75°	145	138	117	101	101	153
85°	42	34	25	21	21	44
90°	2	6	10	13	14	3
95°	7	16	21	22	22	7
105°	21	22	32	37	39	22
115°	35	30	37	43	46	35
125°	47	38	43	49	51	42
135°	57	51	47	52	55	44
145°	63	60	53	52	54	39
155°	67	66	62	60	59	31
165°	69	70	68	68	68	20
175°	70	71	71	72	72	7
180°	71	71	71	71	71	



TEST NUMBER: P520581

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.5	646.5	646.5	646.5	646.5
2.5°	648.4	646.5	641.9	646.5	645.6
5°	646.5	644.6	639.1	643.7	642.8
7.5°	643.7	641.9	636.3	641.9	640.9
10°	640.9	639.1	633.5	637.2	634.4
12.5°	636.3	634.4	627.9	623.2	617.7
15°	629.8	628.8	617.7	606.5	600.9
17.5°	624.2	621.4	603.7	590.7	584.2
20°	616.7	612.1	588.8	573.9	569.3
22.5°	608.4	600.9	573.0	559.1	555.3
25°	596.3	588.8	557.2	542.3	538.6
27.5°	584.2	574.9	541.4	526.5	522.8
30°	571.2	558.1	523.7	509.8	503.2
32.5°	556.3	543.2	507.0	491.2	483.7
35°	538.6	524.6	488.4	470.7	463.2
37.5°	521.9	507.0	469.8	450.2	440.0
40°	501.4	486.5	448.4	427.0	416.7
42.5°	480.0	466.0	427.9	401.9	376.7
45°	456.7	443.7	404.6	368.4	320.9
47.5°	432.6	421.4	383.3	333.9	288.4
50°	408.4	397.2	360.0	301.4	263.3
52.5°	384.2	374.9	333.9	274.4	242.8
55°	357.2	348.8	310.7	248.4	226.0
57.5°	333.0	324.6	283.7	227.0	208.4
60°	306.0	298.6	258.6	205.6	191.6
62.5°	280.9	272.6	233.5	187.0	176.7
65°	254.9	245.6	209.3	168.4	161.9
67.5°	227.9	218.6	186.0	151.6	147.9
70°	200.9	193.5	162.8	134.9	133.0
72.5°	173.0	164.6	139.5	119.1	119.1
75°	145.1	137.7	117.2	101.4	101.4
77.5°	116.3	112.6	94.0	82.8	83.7
80°	91.2	86.5	70.7	63.3	63.3
82.5°	67.0	61.4	47.4	41.9	43.7
85°	41.9	34.4	25.1	21.4	21.4
87.5°	13.0	10.2	7.4	8.4	8.4
90°	1.9	6.5	10.2	13.0	14.0
92.5°	4.7	12.1	14.9	17.7	18.6
95°	7.4	15.8	21.4	22.3	22.3
97.5°	10.2	17.7	26.0	29.8	29.8
100°	14.0	18.6	27.9	33.5	34.4
102.5°	17.7	20.5	29.8	35.3	37.2
105°	21.4	22.3	31.6	37.2	39.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.6	27.9	35.3	41.9	43.7
115°	35.3	29.8	37.2	42.8	45.6
117.5°	38.1	32.6	39.1	44.7	46.5
120°	40.9	34.4	40.0	46.5	48.4
122.5°	44.7	36.3	41.9	47.4	50.2
125°	47.4	38.1	42.8	49.3	51.2
127.5°	50.2	41.9	43.7	50.2	52.1
130°	52.1	45.6	44.7	51.2	53.0
132.5°	54.9	48.4	45.6	52.1	54.0
135°	56.7	51.2	47.4	52.1	54.9
137.5°	58.6	54.0	47.4	52.1	54.0
140°	60.5	56.7	48.4	52.1	54.0
142.5°	61.4	58.6	49.3	52.1	54.0
145°	63.3	60.5	53.0	52.1	54.0
147.5°	64.2	62.3	55.8	52.1	54.0
150°	65.1	64.2	58.6	53.0	53.0
152.5°	66.0	65.1	60.5	56.7	54.9
155°	67.0	66.0	62.3	59.5	58.6
157.5°	67.9	67.9	64.2	62.3	61.4
160°	67.9	68.8	66.0	64.2	63.3
162.5°	68.8	69.8	67.0	66.0	65.1
165°	68.8	69.8	67.9	67.9	67.9
167.5°	69.8	70.7	69.8	68.8	68.8
170°	69.8	70.7	69.8	69.8	69.8
172.5°	69.8	70.7	70.7	70.7	70.7
175°	69.8	70.7	70.7	71.6	71.6
177.5°	69.8	70.7	70.7	70.7	70.7
180°	70.7	70.7	70.7	70.7	70.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	25.1	24.2	32.6	39.1	40.9
110°	27.9	26.0	34.4	40.0	41.9



(END OF REPORT)