

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: P520485

Luminaire Tested: **4WSLA-125-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520485
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-125-L830-UPL8-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

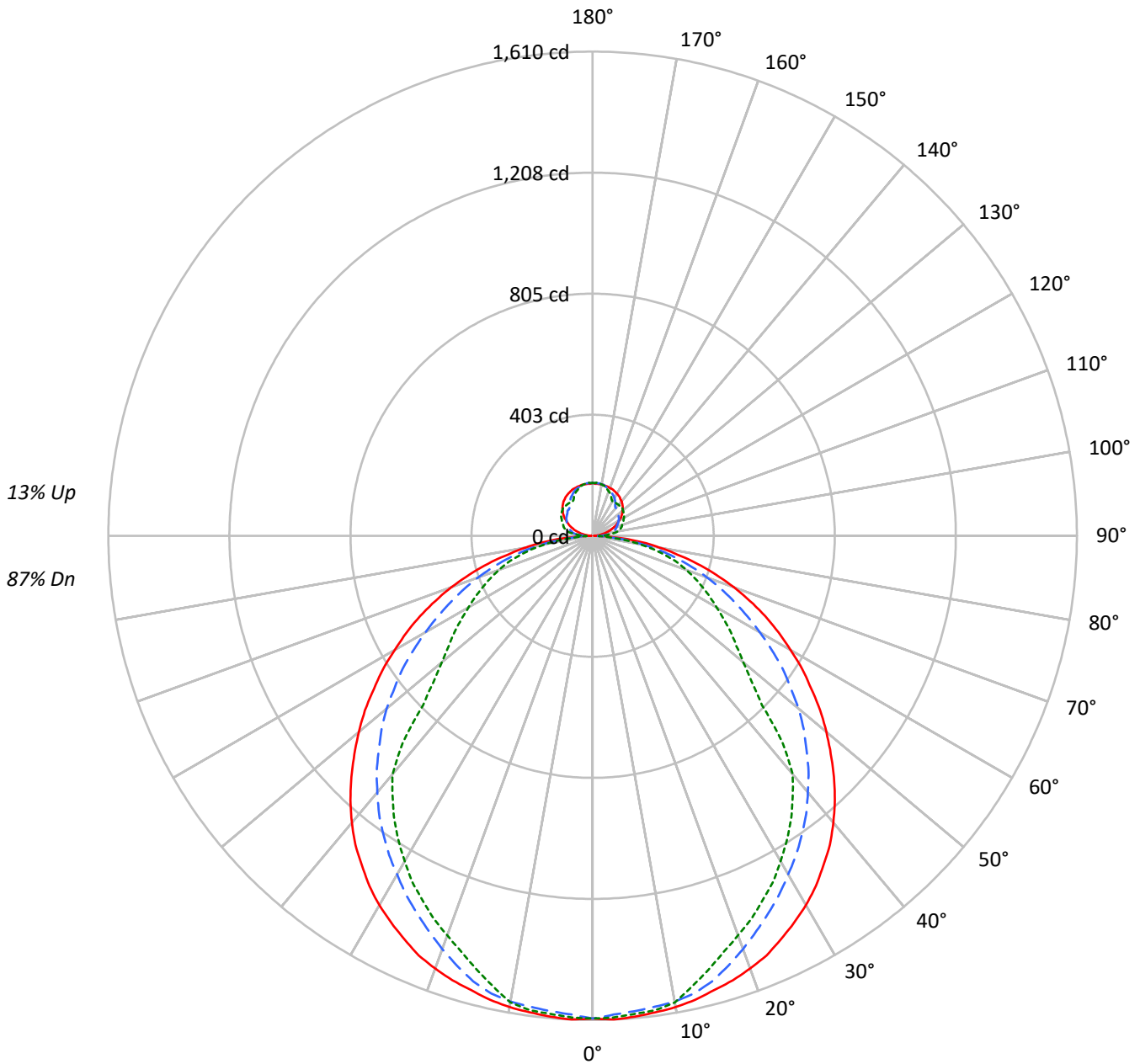
Lumens per Lamp: N/A
Luminaire Lumens: 4996.0 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 38.8
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			
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°	8640	8640	8640
5°	8673	8573	8623
10°	8698	8596	8609
15°	8713	8545	8314
20°	8771	8374	8096
25°	8792	8216	7942
30°	8813	8081	7766
35°	8787	7968	7558
40°	8747	7822	7270
45°	8632	7648	6065
50°	8490	7484	5473
55°	8323	7239	5267
60°	8179	6912	5121
65°	8060	6618	5118
70°	7851	6360	5198
75°	7492	6051	5236
80°	7017	5439	4869
85°	6416	3853	3279



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	3.0
10°-20°	432.1	8.6
20°-30°	645.6	12.9
30°-40°	770.7	15.4
40°-50°	770.7	15.4
50°-60°	667.0	13.4
60°-70°	512.0	10.2
70°-80°	313.7	6.3
80°-90°	88.3	1.8
90°-100°	49.9	1.0
100°-110°	79.2	1.6
110°-120°	92.6	1.9
120°-130°	100.0	2.0
130°-140°	98.5	2.0
140°-150°	87.2	1.7
150°-160°	71.7	1.4
160°-170°	48.0	1.0
170°-180°	16.7	0.3
0°-30°	1229.6	24.6
0°-40°	2000.3	40.0
0°-60°	3438.1	68.8
0°-90°	4352.1	87.1
90°-120°	221.8	4.4
90°-150°	507.5	10.2
90°-180°	644.0	12.9
0°-180°	4996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1605	1601	1587	1598	1596	153
15°	1564	1561	1534	1506	1492	442
25°	1481	1462	1384	1347	1337	683
35°	1337	1303	1213	1169	1150	837
45°	1134	1102	1005	915	797	875
55°	887	866	772	617	561	795
65°	633	610	520	418	402	625
75°	360	342	291	252	252	380
85°	104	86	62	53	53	109
90°	5	16	25	32	35	7
95°	18	39	53	55	55	18
105°	53	55	78	92	97	56
115°	88	74	92	106	113	86
125°	118	95	106	122	127	105
135°	141	127	118	129	136	109
145°	157	150	132	129	134	98
155°	166	164	155	148	146	77
165°	171	173	169	169	169	49
175°	173	176	176	178	178	17
180°	176	176	176	176	176	



TEST NUMBER: P520485

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.3	1605.3	1605.3	1605.3	1605.3
2.5°	1610.0	1605.3	1593.8	1605.3	1603.0
5°	1605.3	1600.7	1586.9	1598.4	1596.1
7.5°	1598.4	1593.8	1579.9	1593.8	1591.5
10°	1591.5	1586.9	1573.0	1582.2	1575.3
12.5°	1579.9	1575.3	1559.1	1547.6	1533.7
15°	1563.8	1561.4	1533.7	1506.0	1492.2
17.5°	1549.9	1543.0	1499.1	1466.7	1450.6
20°	1531.4	1519.9	1462.1	1425.2	1413.6
22.5°	1510.6	1492.2	1422.9	1388.2	1379.0
25°	1480.6	1462.1	1383.6	1346.6	1337.4
27.5°	1450.6	1427.5	1344.3	1307.4	1298.1
30°	1418.2	1385.9	1300.4	1265.8	1249.6
32.5°	1381.3	1348.9	1258.9	1219.6	1201.1
35°	1337.4	1302.7	1212.7	1168.8	1150.3
37.5°	1295.8	1258.9	1166.5	1118.0	1092.5
40°	1245.0	1208.0	1113.3	1060.2	1034.8
42.5°	1191.9	1157.2	1062.5	997.8	935.5
45°	1134.1	1101.8	1004.8	914.7	796.9
47.5°	1074.1	1046.4	951.7	829.2	716.0
50°	1014.0	986.3	893.9	748.4	653.7
52.5°	954.0	930.9	829.2	681.4	602.9
55°	887.0	866.2	771.5	616.7	561.3
57.5°	826.9	806.1	704.5	563.6	517.4
60°	759.9	741.5	642.1	510.5	475.8
62.5°	697.6	676.8	579.8	464.3	438.9
65°	632.9	609.8	519.7	418.1	401.9
67.5°	565.9	542.8	462.0	376.5	367.3
70°	498.9	480.4	404.2	334.9	330.3
72.5°	429.6	408.8	346.5	295.7	295.7
75°	360.3	341.9	291.0	251.8	251.8
77.5°	288.7	279.5	233.3	205.6	207.9
80°	226.4	214.8	175.5	157.1	157.1
82.5°	166.3	152.4	117.8	103.9	108.6
85°	103.9	85.5	62.4	53.1	53.1
87.5°	32.3	25.4	18.5	20.8	20.8
90°	4.6	16.2	25.4	32.3	34.6
92.5°	11.5	30.0	37.0	43.9	46.2
95°	18.5	39.3	53.1	55.4	55.4
97.5°	25.4	43.9	64.7	73.9	73.9
100°	34.6	46.2	69.3	83.2	85.5
102.5°	43.9	50.8	73.9	87.8	92.4
105°	53.1	55.4	78.5	92.4	97.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	78.5	69.3	87.8	103.9	108.6
115°	87.8	73.9	92.4	106.3	113.2
117.5°	94.7	80.8	97.0	110.9	115.5
120°	101.6	85.5	99.3	115.5	120.1
122.5°	110.9	90.1	103.9	117.8	124.7
125°	117.8	94.7	106.3	122.4	127.0
127.5°	124.7	103.9	108.6	124.7	129.4
130°	129.4	113.2	110.9	127.0	131.7
132.5°	136.3	120.1	113.2	129.4	134.0
135°	140.9	127.0	117.8	129.4	136.3
137.5°	145.5	134.0	117.8	129.4	134.0
140°	150.1	140.9	120.1	129.4	134.0
142.5°	152.4	145.5	122.4	129.4	134.0
145°	157.1	150.1	131.7	129.4	134.0
147.5°	159.4	154.8	138.6	129.4	134.0
150°	161.7	159.4	145.5	131.7	131.7
152.5°	164.0	161.7	150.1	140.9	136.3
155°	166.3	164.0	154.8	147.8	145.5
157.5°	168.6	168.6	159.4	154.8	152.4
160°	168.6	170.9	164.0	159.4	157.1
162.5°	170.9	173.2	166.3	164.0	161.7
165°	170.9	173.2	168.6	168.6	168.6
167.5°	173.2	175.5	173.2	170.9	170.9
170°	173.2	175.5	173.2	173.2	173.2
172.5°	173.2	175.5	175.5	175.5	175.5
175°	173.2	175.5	175.5	177.9	177.9
177.5°	173.2	175.5	175.5	175.5	175.5
180°	175.5	175.5	175.5	175.5	175.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	62.4	60.1	80.8	97.0	101.6
110°	69.3	64.7	85.5	99.3	103.9



(END OF REPORT)