

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: P520484

Luminaire Tested: **4WSLA-125-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520484
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: 4WSLA-125-L830-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

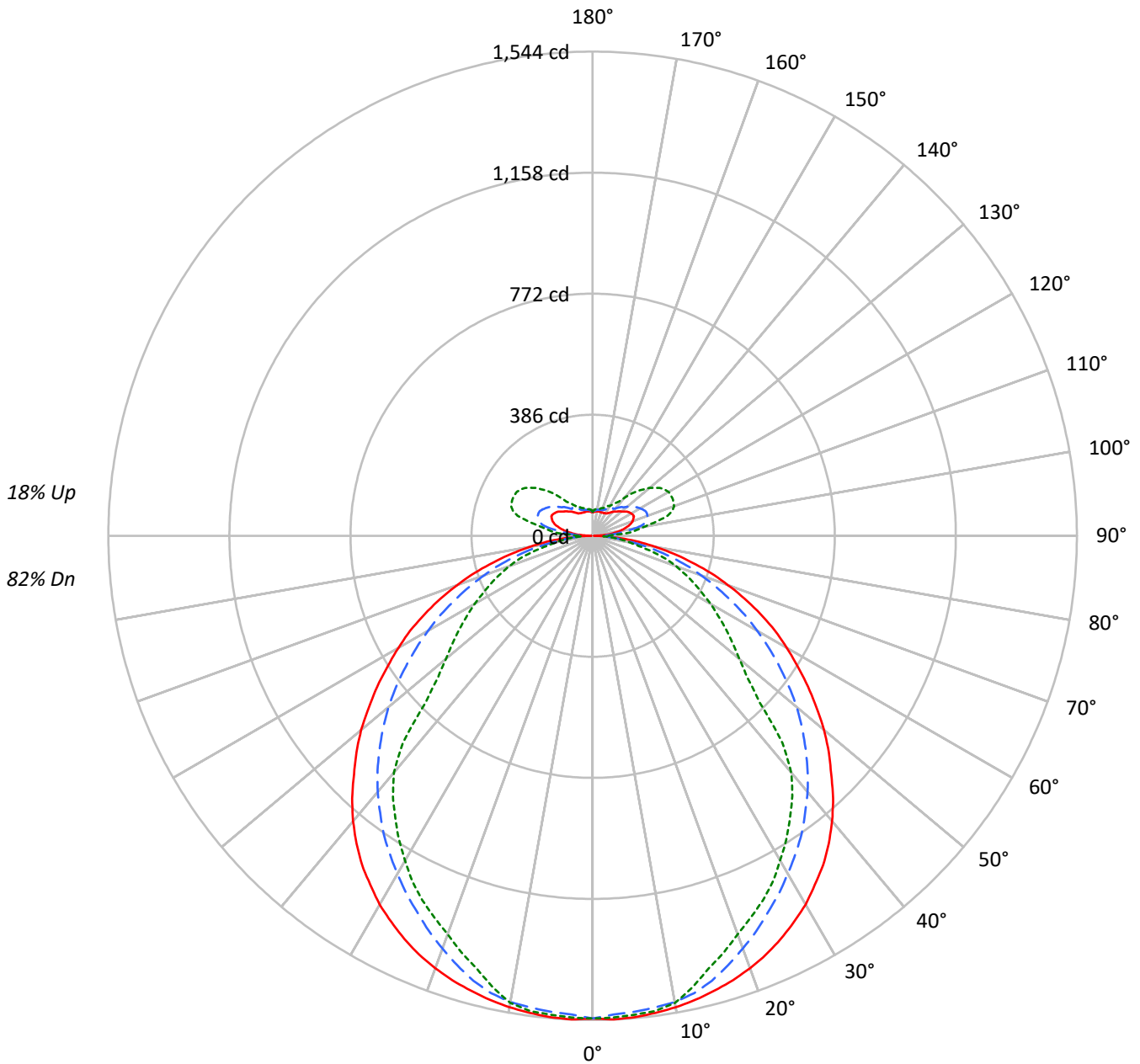
Lumens per Lamp: N/A
Luminaire Lumens: 4985.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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									
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	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°	8284	8284	8284
5°	8324	8231	8282
10°	8343	8250	8267
15°	8368	8185	7959
20°	8404	8020	7743
25°	8426	7861	7620
30°	8440	7732	7431
35°	8421	7631	7210
40°	8346	7491	6920
45°	8187	7308	5739
50°	8065	7110	5111
55°	7866	6826	4863
60°	7696	6520	4672
65°	7515	6162	4532
70°	7223	5773	4447
75°	6816	5292	4090
80°	6242	4451	3629
85°	5588	3853	3662



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	2.9
10°-20°	414.4	8.3
20°-30°	618.4	12.4
30°-40°	736.9	14.8
40°-50°	732.9	14.7
50°-60°	628.2	12.6
60°-70°	473.1	9.5
70°-80°	274.0	5.5
80°-90°	82.3	1.7
90°-100°	88.4	1.8
100°-110°	181.6	3.6
110°-120°	192.0	3.9
120°-130°	160.1	3.2
130°-140°	111.9	2.2
140°-150°	69.6	1.4
150°-160°	43.2	0.9
160°-170°	24.3	0.5
170°-180°	7.8	0.2
0°-30°	1178.7	23.6
0°-40°	1915.6	38.4
0°-60°	3276.7	65.7
0°-90°	4106.1	82.4
90°-120°	461.9	9.3
90°-150°	803.6	16.1
90°-180°	879.0	17.6
0°-180°	4985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1541	1536	1524	1534	1533	147
15°	1502	1500	1469	1444	1428	424
25°	1419	1399	1324	1291	1283	654
35°	1282	1247	1161	1116	1097	801
45°	1076	1049	960	865	754	831
55°	838	826	728	578	518	749
65°	590	576	484	376	356	583
75°	328	317	254	203	197	347
85°	90	80	62	59	59	97
90°	5	22	38	47	50	9
95°	50	67	76	112	122	48
105°	117	122	175	234	248	121
115°	145	123	186	256	281	141
125°	134	119	161	236	265	119
135°	109	119	130	175	201	85
145°	89	103	112	120	128	56
155°	81	86	92	100	102	37
165°	80	83	86	89	89	23
175°	78	80	81	83	84	7
180°	76	76	76	76	76	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.2	1539.2	1539.2	1539.2	1539.2
2.5°	1543.9	1540.8	1528.3	1540.8	1537.7
5°	1540.8	1536.1	1523.6	1534.5	1533.0
7.5°	1534.5	1531.4	1517.4	1529.9	1528.3
10°	1526.7	1522.1	1509.6	1518.9	1512.7
12.5°	1515.8	1512.7	1494.0	1486.2	1473.7
15°	1501.8	1500.2	1469.0	1444.0	1428.4
17.5°	1486.2	1479.9	1436.2	1406.5	1392.5
20°	1467.4	1458.1	1400.3	1365.9	1351.9
22.5°	1445.6	1431.5	1364.4	1331.6	1317.6
25°	1419.0	1398.7	1323.8	1291.0	1283.2
27.5°	1389.4	1365.9	1286.3	1253.6	1244.2
30°	1358.1	1328.5	1244.2	1213.0	1195.8
32.5°	1319.1	1291.0	1203.6	1167.7	1149.0
35°	1281.7	1247.3	1161.4	1116.2	1097.4
37.5°	1236.4	1202.0	1113.1	1067.8	1045.9
40°	1188.0	1153.6	1066.2	1013.1	985.0
42.5°	1134.9	1103.7	1014.7	950.7	896.1
45°	1075.6	1049.0	960.1	864.8	754.0
47.5°	1020.9	996.0	905.4	782.1	668.1
50°	963.2	939.8	849.2	704.0	610.4
52.5°	899.2	882.0	788.3	636.9	562.0
55°	838.3	825.8	727.5	577.6	518.3
57.5°	774.3	761.8	666.6	521.4	474.6
60°	715.0	702.5	605.7	471.4	434.0
62.5°	655.7	638.5	546.4	423.1	391.8
65°	590.1	576.0	483.9	376.2	355.9
67.5°	524.5	512.0	426.2	332.5	318.5
70°	459.0	448.0	366.9	290.4	282.6
72.5°	395.0	380.9	313.8	248.2	245.1
75°	327.8	316.9	254.5	202.9	196.7
77.5°	263.8	254.5	199.8	154.5	149.9
80°	201.4	192.0	143.6	112.4	117.1
82.5°	148.3	135.8	96.8	87.4	92.1
85°	90.5	79.6	62.4	59.3	59.3
87.5°	31.2	29.7	28.1	32.8	34.3
90°	4.7	21.9	37.5	46.8	50.0
92.5°	26.5	39.0	51.5	60.9	64.0
95°	50.0	67.1	76.5	112.4	121.8
97.5°	68.7	89.0	99.9	132.7	142.1
100°	87.4	106.2	140.5	157.7	168.6
102.5°	103.0	117.1	165.5	199.8	206.1
105°	117.1	121.8	174.8	234.2	248.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	124.9	187.3	254.5	279.4
115°	145.2	123.3	185.8	256.0	281.0
117.5°	145.2	123.3	181.1	256.0	281.0
120°	142.1	124.9	174.8	252.9	279.4
122.5°	138.9	121.8	168.6	246.7	273.2
125°	134.3	118.6	160.8	235.7	265.4
127.5°	126.4	121.8	153.0	221.7	251.3
130°	120.2	123.3	143.6	207.6	237.3
132.5°	115.5	120.2	134.3	192.0	218.6
135°	109.3	118.6	129.6	174.8	201.4
137.5°	104.6	114.0	121.8	159.2	181.1
140°	99.9	110.8	114.0	138.9	157.7
142.5°	93.7	106.2	107.7	129.6	137.4
145°	89.0	103.0	112.4	120.2	128.0
147.5°	84.3	96.8	109.3	110.8	118.6
150°	82.7	90.5	104.6	106.2	109.3
152.5°	81.2	87.4	96.8	106.2	107.7
155°	81.2	85.9	92.1	99.9	101.5
157.5°	79.6	85.9	89.0	95.2	96.8
160°	79.6	84.3	87.4	92.1	93.7
162.5°	79.6	84.3	85.9	90.5	92.1
165°	79.6	82.7	85.9	89.0	89.0
167.5°	79.6	82.7	84.3	87.4	87.4
170°	79.6	81.2	84.3	85.9	85.9
172.5°	78.1	81.2	82.7	85.9	85.9
175°	78.1	79.6	81.2	82.7	84.3
177.5°	74.9	79.6	81.2	82.7	81.2
180°	76.5	76.5	76.5	76.5	76.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	128.0	123.3	181.1	246.7	266.9
110°	135.8	124.9	185.8	251.3	276.3



(END OF REPORT)