

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: P520490

Luminaire Tested: **4WSLA-125-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520490
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-L840-UPL15-UNV-U
Description: 4 FOOT, 1250 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

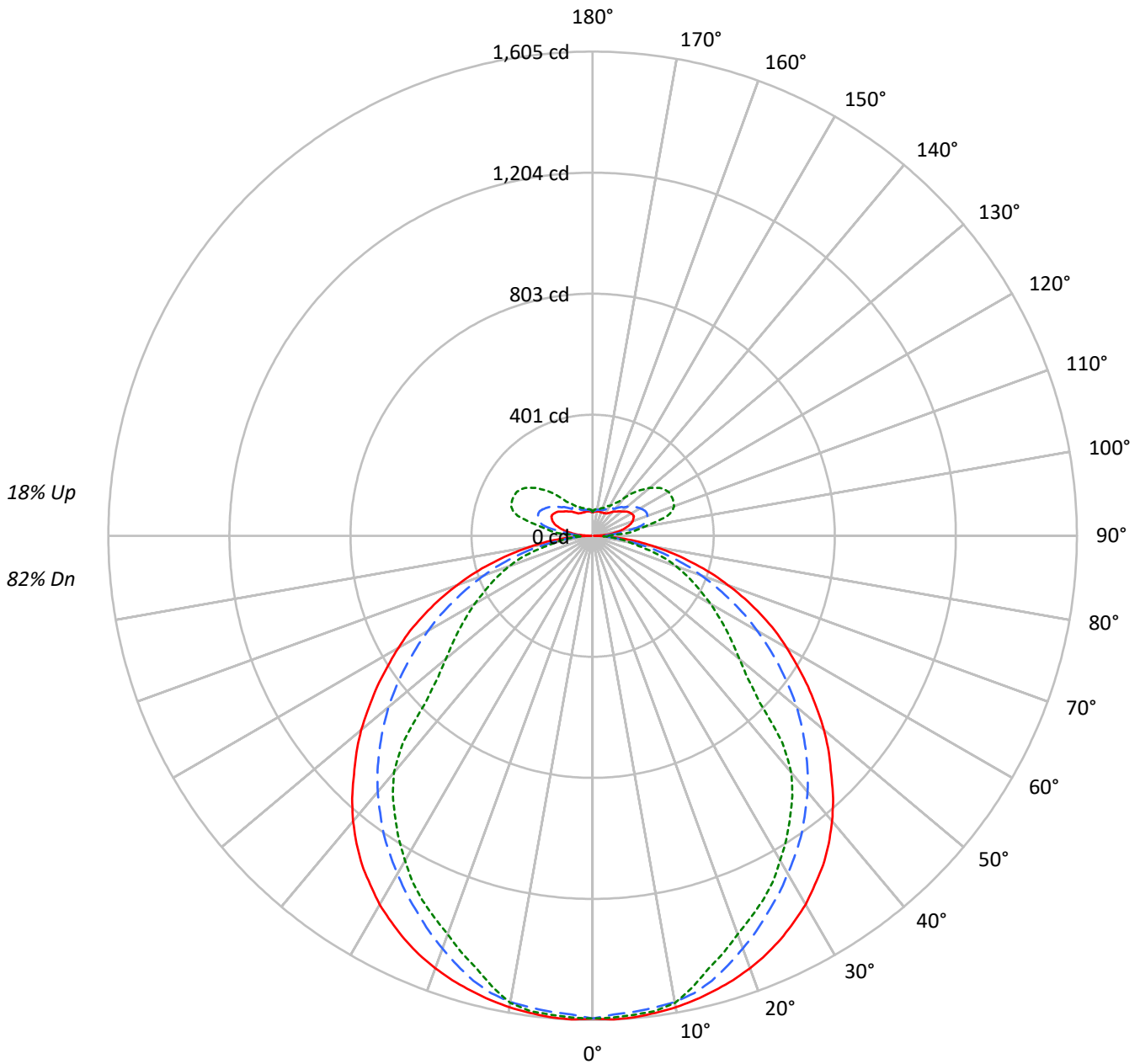
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5182.0 lumens
Efficiency: N/A
Efficacy: 133.6 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				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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	86	86	86	82
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	72	72	72	69
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	61	61	61	58
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	52	52	52	49
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	45	45	45	42
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	39	39	39	36
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	34	34	34	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	30	30	30	28
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	27	27	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	25	25	25	23
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8612	8612	8612
5°	8653	8557	8609
10°	8673	8576	8594
15°	8698	8508	8273
20°	8737	8337	8049
25°	8760	8172	7921
30°	8774	8038	7725
35°	8753	7932	7495
40°	8676	7787	7194
45°	8510	7596	5966
50°	8384	7392	5313
55°	8176	7096	5056
60°	8000	6777	4856
65°	7812	6407	4712
70°	7508	6002	4622
75°	7087	5500	4252
80°	6487	4627	3772
85°	5811	4008	3810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	2.9
10°-20°	430.8	8.3
20°-30°	642.9	12.4
30°-40°	766.0	14.8
40°-50°	761.9	14.7
50°-60°	653.0	12.6
60°-70°	491.8	9.5
70°-80°	284.8	5.5
80°-90°	85.6	1.7
90°-100°	91.9	1.8
100°-110°	188.7	3.6
110°-120°	199.5	3.9
120°-130°	166.5	3.2
130°-140°	116.3	2.2
140°-150°	72.4	1.4
150°-160°	44.9	0.9
160°-170°	25.3	0.5
170°-180°	8.1	0.2
0°-30°	1225.3	23.6
0°-40°	1991.3	38.4
0°-60°	3406.2	65.7
0°-90°	4268.4	82.4
90°-120°	480.2	9.3
90°-150°	835.3	16.1
90°-180°	914.0	17.6
0°-180°	5182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1602	1597	1584	1595	1594	152
15°	1561	1560	1527	1501	1485	441
25°	1475	1454	1376	1342	1334	680
35°	1332	1297	1207	1160	1141	832
45°	1118	1090	998	899	784	864
55°	871	858	756	600	539	779
65°	613	599	503	391	370	606
75°	341	329	264	211	204	361
85°	94	83	65	62	62	100
90°	5	23	39	49	52	10
95°	52	70	80	117	127	50
105°	122	127	182	243	258	126
115°	151	128	193	266	292	147
125°	140	123	167	245	276	124
135°	114	123	135	182	209	89
145°	92	107	117	125	133	59
155°	84	89	96	104	106	39
165°	83	86	89	92	92	23
175°	81	83	84	86	88	8
180°	80	80	80	80	80	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1600.1	1600.1	1600.1	1600.1	1600.1
2.5°	1604.9	1601.7	1588.7	1601.7	1598.4
5°	1601.7	1596.8	1583.8	1595.2	1593.6
7.5°	1595.2	1591.9	1577.3	1590.3	1588.7
10°	1587.1	1582.2	1569.2	1579.0	1572.5
12.5°	1575.7	1572.5	1553.0	1544.9	1531.9
15°	1561.1	1559.5	1527.0	1501.1	1484.8
17.5°	1544.9	1538.4	1493.0	1462.1	1447.5
20°	1525.4	1515.7	1455.6	1419.9	1405.3
22.5°	1502.7	1488.1	1418.3	1384.2	1369.6
25°	1475.1	1454.0	1376.1	1342.0	1333.9
27.5°	1444.3	1419.9	1337.2	1303.1	1293.4
30°	1411.8	1381.0	1293.4	1260.9	1243.0
32.5°	1371.2	1342.0	1251.2	1213.8	1194.4
35°	1332.3	1296.6	1207.3	1160.3	1140.8
37.5°	1285.2	1249.5	1157.0	1110.0	1087.3
40°	1234.9	1199.2	1108.4	1053.2	1024.0
42.5°	1179.8	1147.3	1054.8	988.3	931.5
45°	1118.1	1090.5	998.0	899.0	783.8
47.5°	1061.3	1035.3	941.2	813.0	694.5
50°	1001.3	976.9	882.8	731.9	634.5
52.5°	934.7	916.9	819.5	662.1	584.2
55°	871.4	858.4	756.2	600.4	538.8
57.5°	804.9	791.9	692.9	542.0	493.3
60°	743.2	730.2	629.6	490.1	451.1
62.5°	681.6	663.7	568.0	439.8	407.3
65°	613.4	598.8	503.1	391.1	370.0
67.5°	545.3	532.3	443.0	345.7	331.0
70°	477.1	465.7	381.4	301.8	293.7
72.5°	410.6	396.0	326.2	258.0	254.8
75°	340.8	329.4	264.5	211.0	204.5
77.5°	274.2	264.5	207.7	160.7	155.8
80°	209.3	199.6	149.3	116.8	121.7
82.5°	154.2	141.2	100.6	90.9	95.7
85°	94.1	82.8	64.9	61.7	61.7
87.5°	32.5	30.8	29.2	34.1	35.7
90°	4.9	22.7	38.9	48.7	51.9
92.5°	27.6	40.6	53.6	63.3	66.5
95°	51.9	69.8	79.5	116.8	126.6
97.5°	71.4	92.5	103.9	137.9	147.7
100°	90.9	110.3	146.0	163.9	175.3
102.5°	107.1	121.7	172.0	207.7	214.2
105°	121.7	126.6	181.8	243.4	258.0



TEST NUMBER: P520490

CATALOG NUMBER: 4WSLA-125-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.0	129.8	194.7	264.5	290.5
115°	150.9	128.2	193.1	266.1	292.1
117.5°	150.9	128.2	188.2	266.1	292.1
120°	147.7	129.8	181.8	262.9	290.5
122.5°	144.4	126.6	175.3	256.4	284.0
125°	139.6	123.3	167.1	245.0	275.9
127.5°	131.4	126.6	159.0	230.4	261.3
130°	125.0	128.2	149.3	215.8	246.7
132.5°	120.1	125.0	139.6	199.6	227.2
135°	113.6	123.3	134.7	181.8	209.3
137.5°	108.7	118.5	126.6	165.5	188.2
140°	103.9	115.2	118.5	144.4	163.9
142.5°	97.4	110.3	112.0	134.7	142.8
145°	92.5	107.1	116.8	125.0	133.1
147.5°	87.6	100.6	113.6	115.2	123.3
150°	86.0	94.1	108.7	110.3	113.6
152.5°	84.4	90.9	100.6	110.3	112.0
155°	84.4	89.3	95.7	103.9	105.5
157.5°	82.8	89.3	92.5	99.0	100.6
160°	82.8	87.6	90.9	95.7	97.4
162.5°	82.8	87.6	89.3	94.1	95.7
165°	82.8	86.0	89.3	92.5	92.5
167.5°	82.8	86.0	87.6	90.9	90.9
170°	82.8	84.4	87.6	89.3	89.3
172.5°	81.1	84.4	86.0	89.3	89.3
175°	81.1	82.8	84.4	86.0	87.6
177.5°	77.9	82.8	84.4	86.0	84.4
180°	79.5	79.5	79.5	79.5	79.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	133.1	128.2	188.2	256.4	277.5
110°	141.2	129.8	193.1	261.3	287.2



(END OF REPORT)