

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: P520512

Luminaire Tested: **4WSLA-150-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520512
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-150-L835-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

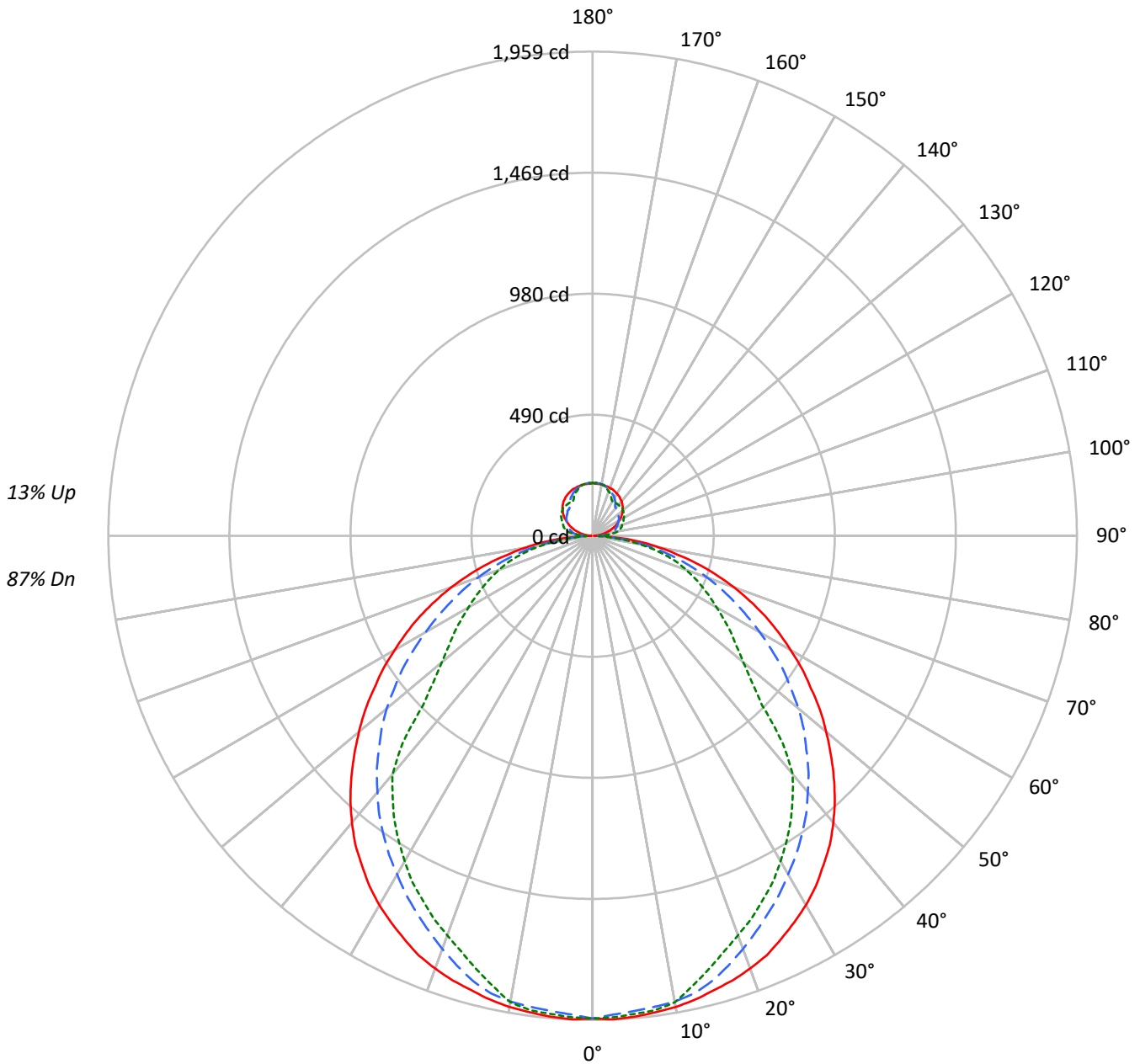
Lumens per Lamp: N/A
Luminaire Lumens: 6078.1 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 47.7
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: P520512

CATALOG NUMBER: 4WSLA-150-L835-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520512

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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°	10511	10511	10511
5°	10551	10430	10491
10°	10581	10458	10474
15°	10600	10396	10115
20°	10671	10188	9850
25°	10697	9995	9662
30°	10723	9832	9448
35°	10690	9693	9194
40°	10641	9516	8845
45°	10501	9304	7379
50°	10329	9105	6659
55°	10125	8807	6407
60°	9951	8409	6231
65°	9806	8052	6227
70°	9552	7739	6323
75°	9116	7363	6369
80°	8536	6620	5923
85°	7812	4687	3989



TEST NUMBER: P520512

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	3.0
10°-20°	525.6	8.6
20°-30°	785.4	12.9
30°-40°	937.6	15.4
40°-50°	937.7	15.4
50°-60°	811.5	13.4
60°-70°	622.9	10.2
70°-80°	381.7	6.3
80°-90°	107.5	1.8
90°-100°	60.7	1.0
100°-110°	96.4	1.6
110°-120°	112.7	1.9
120°-130°	121.7	2.0
130°-140°	119.9	2.0
140°-150°	106.1	1.7
150°-160°	87.3	1.4
160°-170°	58.4	1.0
170°-180°	20.3	0.3
0°-30°	1495.9	24.6
0°-40°	2433.5	40.0
0°-60°	4182.7	68.8
0°-90°	5294.6	87.1
90°-120°	269.8	4.4
90°-150°	617.4	10.2
90°-180°	783.0	12.9
0°-180°	6078.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1953	1953	1953	1953	1953	
5°	1953	1947	1930	1945	1942	186
15°	1902	1900	1866	1832	1815	538
25°	1801	1779	1683	1638	1627	831
35°	1627	1585	1475	1422	1399	1019
45°	1380	1340	1222	1113	970	1064
55°	1079	1054	939	750	683	967
65°	770	742	632	509	489	761
75°	438	416	354	306	306	462
85°	126	104	76	65	65	132
90°	6	20	31	39	42	9
95°	22	48	65	67	67	22
105°	65	67	96	112	118	68
115°	107	90	112	129	138	104
125°	143	115	129	149	155	128
135°	171	155	143	157	166	132
145°	191	183	160	157	163	119
155°	202	200	188	180	177	93
165°	208	211	205	205	205	59
175°	211	214	214	216	216	20
180°	214	214	214	214	214	



TEST NUMBER: P520512

CATALOG NUMBER: 4WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1953.0	1953.0	1953.0	1953.0	1953.0
2.5°	1958.6	1953.0	1939.0	1953.0	1950.2
5°	1953.0	1947.4	1930.5	1944.6	1941.8
7.5°	1944.6	1939.0	1922.1	1939.0	1936.1
10°	1936.1	1930.5	1913.7	1924.9	1916.5
12.5°	1922.1	1916.5	1896.8	1882.8	1865.9
15°	1902.4	1899.6	1865.9	1832.2	1815.3
17.5°	1885.6	1877.1	1823.7	1784.4	1764.7
20°	1863.1	1849.0	1778.8	1733.8	1719.8
22.5°	1837.8	1815.3	1731.0	1688.9	1677.6
25°	1801.3	1778.8	1683.2	1638.3	1627.0
27.5°	1764.7	1736.6	1635.5	1590.5	1579.3
30°	1725.4	1686.0	1582.1	1539.9	1520.3
32.5°	1680.4	1641.1	1531.5	1483.7	1461.2
35°	1627.0	1584.9	1475.3	1421.9	1399.4
37.5°	1576.5	1531.5	1419.1	1360.1	1329.2
40°	1514.6	1469.7	1354.5	1289.8	1258.9
42.5°	1450.0	1407.8	1292.6	1214.0	1138.1
45°	1379.7	1340.4	1222.4	1112.8	969.5
47.5°	1306.7	1273.0	1157.8	1008.8	871.1
50°	1233.6	1199.9	1087.5	910.5	795.3
52.5°	1160.6	1132.5	1008.8	829.0	733.4
55°	1079.1	1053.8	938.6	750.3	682.8
57.5°	1006.0	980.7	857.1	685.7	629.5
60°	924.5	902.0	781.2	621.0	578.9
62.5°	848.6	823.4	705.3	564.8	533.9
65°	770.0	741.9	632.3	508.6	489.0
67.5°	688.5	660.4	562.0	458.0	446.8
70°	607.0	584.5	491.8	407.5	401.8
72.5°	522.7	497.4	421.5	359.7	359.7
75°	438.4	415.9	354.1	306.3	306.3
77.5°	351.3	340.0	283.8	250.1	252.9
80°	275.4	261.3	213.6	191.1	191.1
82.5°	202.3	185.5	143.3	126.5	132.1
85°	126.5	104.0	75.9	64.6	64.6
87.5°	39.3	30.9	22.5	25.3	25.3
90°	5.6	19.7	30.9	39.3	42.2
92.5°	14.1	36.5	45.0	53.4	56.2
95°	22.5	47.8	64.6	67.4	67.4
97.5°	30.9	53.4	78.7	89.9	89.9
100°	42.2	56.2	84.3	101.2	104.0
102.5°	53.4	61.8	89.9	106.8	112.4
105°	64.6	67.4	95.5	112.4	118.0



TEST NUMBER: P520512

CATALOG NUMBER: 4WSLA-150-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.5	84.3	106.8	126.5	132.1
115°	106.8	89.9	112.4	129.3	137.7
117.5°	115.2	98.4	118.0	134.9	140.5
120°	123.6	104.0	120.8	140.5	146.1
122.5°	134.9	109.6	126.5	143.3	151.7
125°	143.3	115.2	129.3	148.9	154.6
127.5°	151.7	126.5	132.1	151.7	157.4
130°	157.4	137.7	134.9	154.6	160.2
132.5°	165.8	146.1	137.7	157.4	163.0
135°	171.4	154.6	143.3	157.4	165.8
137.5°	177.0	163.0	143.3	157.4	163.0
140°	182.7	171.4	146.1	157.4	163.0
142.5°	185.5	177.0	148.9	157.4	163.0
145°	191.1	182.7	160.2	157.4	163.0
147.5°	193.9	188.3	168.6	157.4	163.0
150°	196.7	193.9	177.0	160.2	160.2
152.5°	199.5	196.7	182.7	171.4	165.8
155°	202.3	199.5	188.3	179.8	177.0
157.5°	205.1	205.1	193.9	188.3	185.5
160°	205.1	207.9	199.5	193.9	191.1
162.5°	207.9	210.8	202.3	199.5	196.7
165°	207.9	210.8	205.1	205.1	205.1
167.5°	210.8	213.6	210.8	207.9	207.9
170°	210.8	213.6	210.8	210.8	210.8
172.5°	210.8	213.6	213.6	213.6	213.6
175°	210.8	213.6	213.6	216.4	216.4
177.5°	210.8	213.6	213.6	213.6	213.6
180°	213.6	213.6	213.6	213.6	213.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	75.9	73.1	98.4	118.0	123.6
110°	84.3	78.7	104.0	120.8	126.5



(END OF REPORT)