

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: P520553

Luminaire Tested: **4WSLA-175-L950-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520553
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-175-L950-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

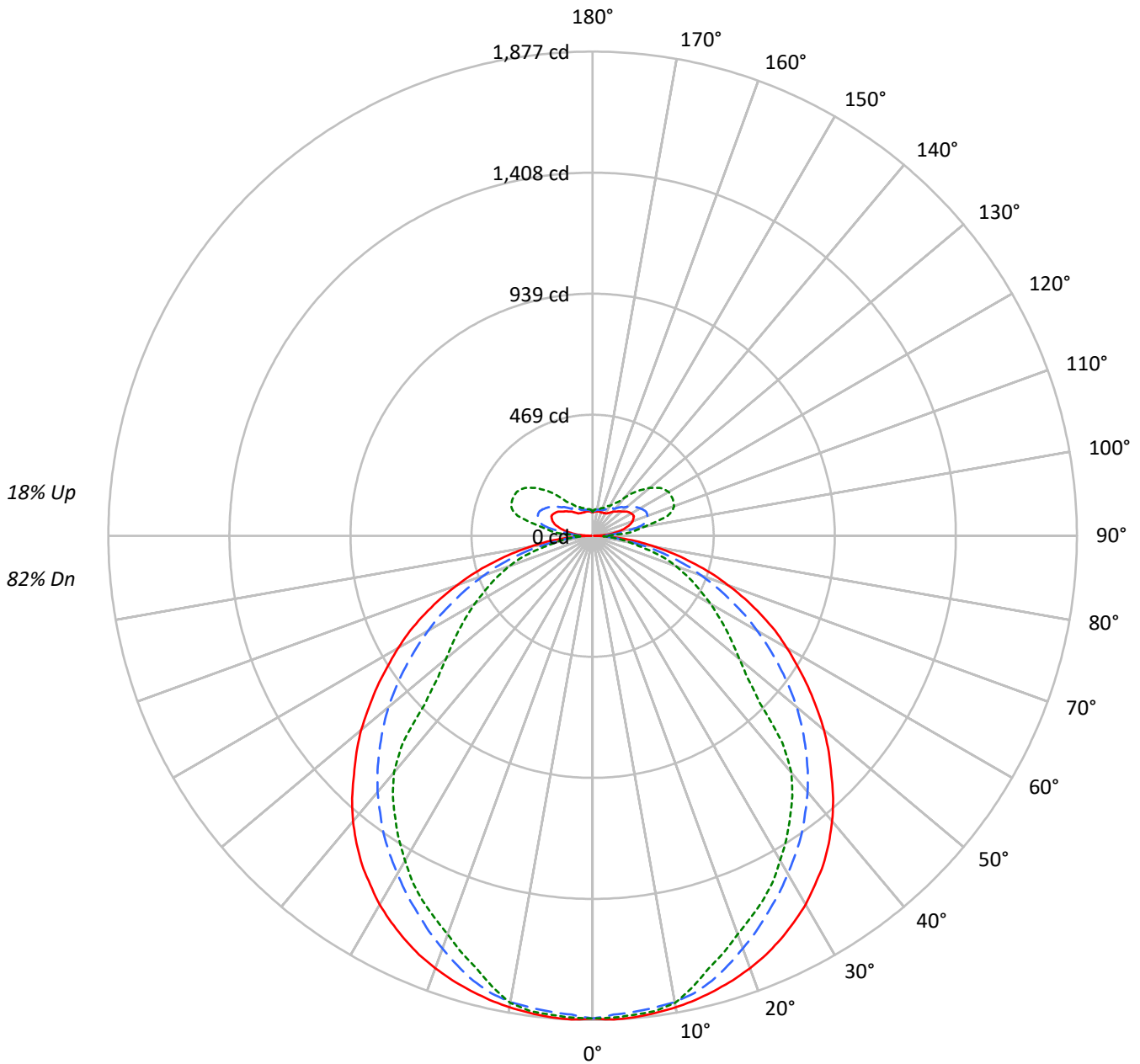
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6061.0 lumens
Efficiency: N/A
Efficacy: 101.9 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): 59.5
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									
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	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°	10072	10072	10072
5°	10121	10008	10070
10°	10145	10030	10051
15°	10174	9952	9677
20°	10219	9751	9414
25°	10245	9558	9265
30°	10262	9401	9035
35°	10238	9278	8767
40°	10148	9108	8415
45°	9954	8885	6978
50°	9805	8645	6213
55°	9563	8299	5912
60°	9357	7927	5680
65°	9137	7493	5512
70°	8781	7018	5405
75°	8289	6434	4974
80°	7587	5411	4413
85°	6799	4687	4452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	2.9
10°-20°	503.8	8.3
20°-30°	751.9	12.4
30°-40°	895.9	14.8
40°-50°	891.2	14.7
50°-60°	763.8	12.6
60°-70°	575.2	9.5
70°-80°	333.1	5.5
80°-90°	100.1	1.7
90°-100°	107.5	1.8
100°-110°	220.7	3.6
110°-120°	233.4	3.9
120°-130°	194.7	3.2
130°-140°	136.0	2.2
140°-150°	84.7	1.4
150°-160°	52.5	0.9
160°-170°	29.6	0.5
170°-180°	9.5	0.2
0°-30°	1433.1	23.6
0°-40°	2329.1	38.4
0°-60°	3984.0	65.7
0°-90°	4992.4	82.4
90°-120°	561.6	9.3
90°-150°	977.0	16.1
90°-180°	1069.0	17.6
0°-180°	6061.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1872	1872	1872	1872	1872	
5°	1873	1868	1852	1866	1864	178
15°	1826	1824	1786	1756	1737	516
25°	1725	1701	1610	1570	1560	795
35°	1558	1516	1412	1357	1334	973
45°	1308	1276	1167	1052	917	1011
55°	1019	1004	884	702	630	911
65°	718	700	588	457	433	709
75°	399	385	309	247	239	422
85°	110	97	76	72	72	117
90°	6	27	46	57	61	11
95°	61	82	93	137	148	58
105°	142	148	213	285	302	148
115°	176	150	226	311	342	172
125°	163	144	196	287	323	145
135°	133	144	158	213	245	104
145°	108	125	137	146	156	69
155°	99	104	112	122	123	46
165°	97	101	104	108	108	27
175°	95	97	99	101	102	9
180°	93	93	93	93	93	



TEST NUMBER: P520553

CATALOG NUMBER: 4WSLA-175-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1871.5	1871.5	1871.5	1871.5	1871.5
2.5°	1877.2	1873.4	1858.2	1873.4	1869.6
5°	1873.4	1867.7	1852.5	1865.8	1863.9
7.5°	1865.8	1862.0	1844.9	1860.1	1858.2
10°	1856.3	1850.6	1835.4	1846.8	1839.2
12.5°	1843.0	1839.2	1816.4	1806.9	1791.8
15°	1825.9	1824.0	1786.1	1755.7	1736.7
17.5°	1806.9	1799.3	1746.2	1710.1	1693.1
20°	1784.2	1772.8	1702.5	1660.8	1643.7
22.5°	1757.6	1740.5	1658.9	1619.0	1601.9
25°	1725.3	1700.6	1609.5	1569.7	1560.2
27.5°	1689.3	1660.8	1564.0	1524.1	1512.7
30°	1651.3	1615.2	1512.7	1474.8	1453.9
32.5°	1603.8	1569.7	1463.4	1419.7	1397.0
35°	1558.3	1516.5	1412.1	1357.1	1334.3
37.5°	1503.2	1461.5	1353.3	1298.3	1271.7
40°	1444.4	1402.7	1296.4	1231.8	1197.7
42.5°	1379.9	1341.9	1233.7	1155.9	1089.5
45°	1307.8	1275.5	1167.3	1051.5	916.8
47.5°	1241.3	1211.0	1100.9	950.9	812.4
50°	1171.1	1142.6	1032.5	856.0	742.1
52.5°	1093.3	1072.4	958.5	774.4	683.3
55°	1019.2	1004.1	884.5	702.3	630.1
57.5°	941.4	926.2	810.5	633.9	577.0
60°	869.3	854.1	736.4	573.2	527.7
62.5°	797.2	776.3	664.3	514.4	476.4
65°	717.5	700.4	588.4	457.4	432.8
67.5°	637.7	622.6	518.2	404.3	387.2
70°	558.0	544.7	446.0	353.0	343.5
72.5°	480.2	463.1	381.5	301.8	298.0
75°	398.6	385.3	309.4	246.7	239.2
77.5°	320.8	309.4	242.9	187.9	182.2
80°	244.8	233.5	174.6	136.7	142.4
82.5°	180.3	165.1	117.7	106.3	112.0
85°	110.1	96.8	75.9	72.1	72.1
87.5°	38.0	36.1	34.2	39.9	41.8
90°	5.7	26.6	45.6	56.9	60.7
92.5°	32.3	47.5	62.6	74.0	77.8
95°	60.7	81.6	93.0	136.7	148.0
97.5°	83.5	108.2	121.5	161.3	172.7
100°	106.3	129.1	170.8	191.7	205.0
102.5°	125.3	142.4	201.2	242.9	250.5
105°	142.4	148.0	212.6	284.7	301.8



TEST NUMBER: P520553

CATALOG NUMBER: 4WSLA-175-L950-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.8	151.8	227.8	309.4	339.7
115°	176.5	149.9	225.9	311.3	341.6
117.5°	176.5	149.9	220.2	311.3	341.6
120°	172.7	151.8	212.6	307.5	339.7
122.5°	168.9	148.0	205.0	299.9	332.2
125°	163.2	144.3	195.5	286.6	322.7
127.5°	153.7	148.0	186.0	269.5	305.6
130°	146.1	149.9	174.6	252.4	288.5
132.5°	140.5	146.1	163.2	233.5	265.7
135°	132.9	144.3	157.5	212.6	244.8
137.5°	127.2	138.6	148.0	193.6	220.2
140°	121.5	134.8	138.6	168.9	191.7
142.5°	113.9	129.1	131.0	157.5	167.0
145°	108.2	125.3	136.7	146.1	155.6
147.5°	102.5	117.7	132.9	134.8	144.3
150°	100.6	110.1	127.2	129.1	132.9
152.5°	98.7	106.3	117.7	129.1	131.0
155°	98.7	104.4	112.0	121.5	123.4
157.5°	96.8	104.4	108.2	115.8	117.7
160°	96.8	102.5	106.3	112.0	113.9
162.5°	96.8	102.5	104.4	110.1	112.0
165°	96.8	100.6	104.4	108.2	108.2
167.5°	96.8	100.6	102.5	106.3	106.3
170°	96.8	98.7	102.5	104.4	104.4
172.5°	94.9	98.7	100.6	104.4	104.4
175°	94.9	96.8	98.7	100.6	102.5
177.5°	91.1	96.8	98.7	100.6	98.7
180°	93.0	93.0	93.0	93.0	93.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	155.6	149.9	220.2	299.9	324.6
110°	165.1	151.8	225.9	305.6	336.0



(END OF REPORT)