

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: P520538

Luminaire Tested: **4WSLA-175-L840-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520538
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-L840-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

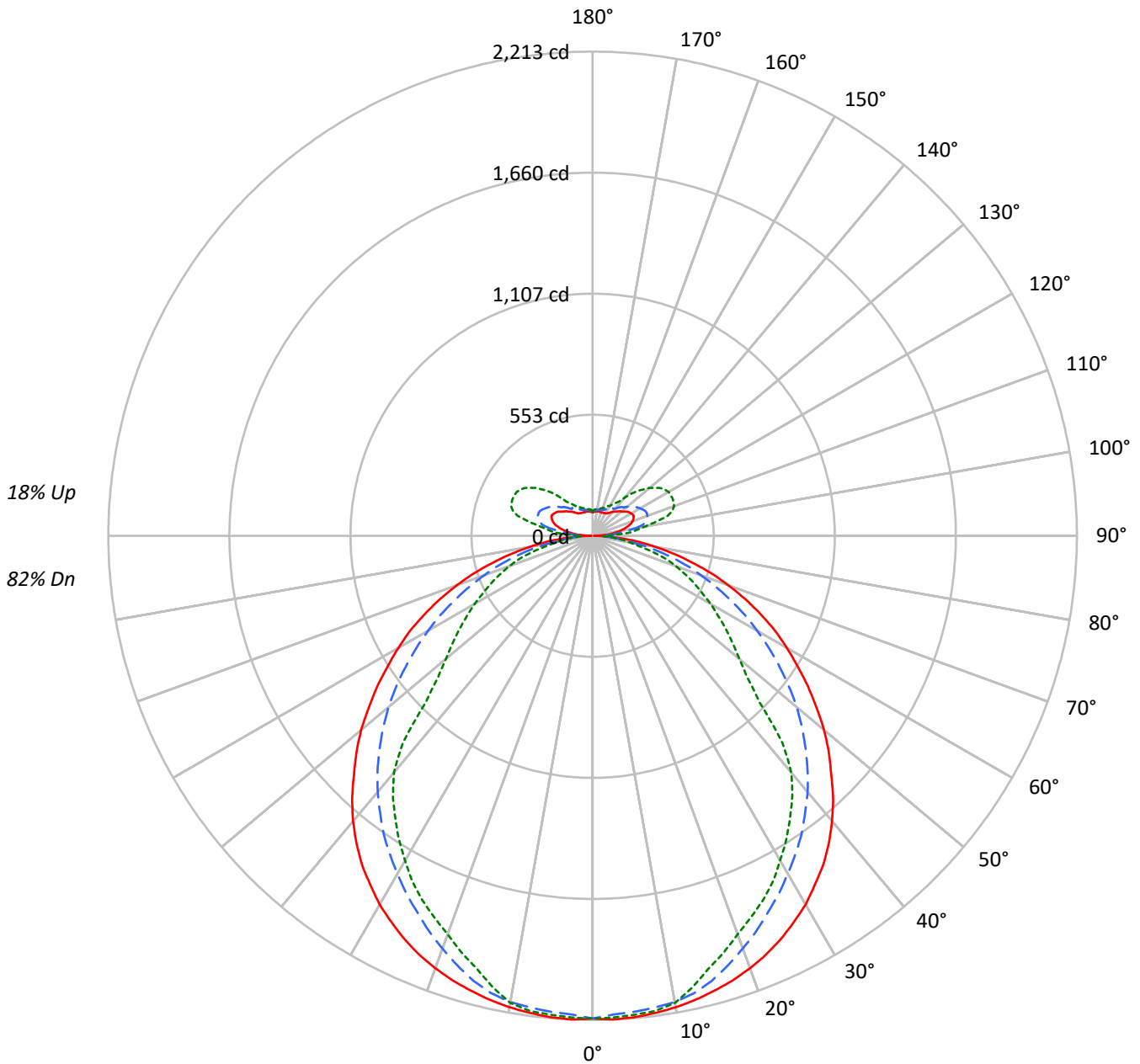
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7145.0 lumens
Efficiency: N/A
Efficacy: 120.1 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°	11874	11874	11874
5°	11931	11798	11870
10°	11959	11825	11849
15°	11993	11731	11407
20°	12046	11495	11098
25°	12078	11267	10922
30°	12097	11082	10651
35°	12069	10937	10335
40°	11963	10737	9920
45°	11733	10474	8225
50°	11559	10191	7325
55°	11274	9784	6971
60°	11031	9345	6695
65°	10771	8833	6497
70°	10351	8274	6373
75°	9771	7584	5862
80°	8945	6382	5201
85°	8015	5527	5249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.9
10°-20°	593.9	8.3
20°-30°	886.4	12.4
30°-40°	1056.2	14.8
40°-50°	1050.5	14.7
50°-60°	900.4	12.6
60°-70°	678.1	9.5
70°-80°	392.7	5.5
80°-90°	118.0	1.7
90°-100°	126.7	1.8
100°-110°	260.2	3.6
110°-120°	275.2	3.9
120°-130°	229.5	3.2
130°-140°	160.3	2.2
140°-150°	99.8	1.4
150°-160°	61.9	0.9
160°-170°	34.8	0.5
170°-180°	11.2	0.2
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0°-30°	1689.4	23.6
0°-40°	2745.6	38.4
0°-60°	4696.5	65.7
0°-90°	5885.3	82.4
90°-120°	662.1	9.3
90°-150°	1151.8	16.1
90°-180°	1260.0	17.6
0°-180°	7145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2208	2202	2184	2200	2197	210
15°	2152	2150	2106	2070	2047	608
25°	2034	2005	1897	1850	1839	938
35°	1837	1788	1665	1600	1573	1147
45°	1542	1504	1376	1240	1081	1192
55°	1202	1184	1043	828	743	1074
65°	846	826	694	539	510	836
75°	470	454	365	291	282	498
85°	130	114	90	85	85	138
90°	7	31	54	67	72	13
95°	72	96	110	161	174	68
105°	168	174	251	336	356	174
115°	208	177	266	367	403	203
125°	192	170	230	338	380	171
135°	157	170	186	251	289	122
145°	128	148	161	172	184	81
155°	116	123	132	143	145	54
165°	114	119	123	128	128	32
175°	112	114	116	119	121	11
180°	110	110	110	110	110	



TEST NUMBER: P520538

CATALOG NUMBER: 4WSLA-175-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2206.2	2206.2	2206.2	2206.2	2206.2
2.5°	2212.9	2208.4	2190.5	2208.4	2203.9
5°	2208.4	2201.7	2183.8	2199.5	2197.2
7.5°	2199.5	2195.0	2174.9	2192.8	2190.5
10°	2188.3	2181.6	2163.7	2177.1	2168.1
12.5°	2172.6	2168.1	2141.3	2130.1	2112.2
15°	2152.5	2150.2	2105.5	2069.7	2047.3
17.5°	2130.1	2121.2	2058.5	2016.0	1995.9
20°	2103.3	2089.8	2007.0	1957.8	1937.7
22.5°	2071.9	2051.8	1955.6	1908.6	1888.5
25°	2033.9	2004.8	1897.4	1850.4	1839.2
27.5°	1991.4	1957.8	1843.7	1796.7	1783.3
30°	1946.6	1904.1	1783.3	1738.5	1713.9
32.5°	1890.7	1850.4	1725.1	1673.7	1646.8
35°	1837.0	1787.8	1664.7	1599.8	1573.0
37.5°	1772.1	1722.9	1595.3	1530.5	1499.1
40°	1702.7	1653.5	1528.2	1452.1	1411.9
42.5°	1626.7	1581.9	1454.4	1362.6	1284.3
45°	1541.6	1503.6	1376.1	1239.6	1080.7
47.5°	1463.3	1427.5	1297.8	1121.0	957.7
50°	1380.5	1347.0	1217.2	1009.1	874.9
52.5°	1288.8	1264.2	1129.9	912.9	805.5
55°	1201.5	1183.6	1042.7	827.9	742.9
57.5°	1109.8	1091.9	955.4	747.3	680.2
60°	1024.8	1006.9	868.2	675.7	622.0
62.5°	939.8	915.1	783.1	606.4	561.6
65°	845.8	825.6	693.6	539.2	510.2
67.5°	751.8	733.9	610.8	476.6	456.5
70°	657.8	642.2	525.8	416.2	405.0
72.5°	566.1	546.0	449.7	355.8	351.3
75°	469.9	454.2	364.7	290.9	281.9
77.5°	378.1	364.7	286.4	221.5	214.8
80°	288.6	275.2	205.9	161.1	167.8
82.5°	212.6	194.7	138.7	125.3	132.0
85°	129.8	114.1	89.5	85.0	85.0
87.5°	44.8	42.5	40.3	47.0	49.2
90°	6.7	31.3	53.7	67.1	71.6
92.5°	38.0	55.9	73.8	87.3	91.7
95°	71.6	96.2	109.6	161.1	174.5
97.5°	98.5	127.5	143.2	190.2	203.6
100°	125.3	152.2	201.4	226.0	241.7
102.5°	147.7	167.8	237.2	286.4	295.4
105°	167.8	174.5	250.6	335.6	355.8



TEST NUMBER: P520538

CATALOG NUMBER: 4WSLA-175-L840-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	201.4	179.0	268.5	364.7	400.5
115°	208.1	176.8	266.3	367.0	402.8
117.5°	208.1	176.8	259.6	367.0	402.8
120°	203.6	179.0	250.6	362.5	400.5
122.5°	199.1	174.5	241.7	353.5	391.6
125°	192.4	170.1	230.5	337.9	380.4
127.5°	181.2	174.5	219.3	317.7	360.2
130°	172.3	176.8	205.9	297.6	340.1
132.5°	165.6	172.3	192.4	275.2	313.3
135°	156.6	170.1	185.7	250.6	288.6
137.5°	149.9	163.3	174.5	228.2	259.6
140°	143.2	158.9	163.3	199.1	226.0
142.5°	134.3	152.2	154.4	185.7	196.9
145°	127.5	147.7	161.1	172.3	183.5
147.5°	120.8	138.7	156.6	158.9	170.1
150°	118.6	129.8	149.9	152.2	156.6
152.5°	116.4	125.3	138.7	152.2	154.4
155°	116.4	123.1	132.0	143.2	145.4
157.5°	114.1	123.1	127.5	136.5	138.7
160°	114.1	120.8	125.3	132.0	134.3
162.5°	114.1	120.8	123.1	129.8	132.0
165°	114.1	118.6	123.1	127.5	127.5
167.5°	114.1	118.6	120.8	125.3	125.3
170°	114.1	116.4	120.8	123.1	123.1
172.5°	111.9	116.4	118.6	123.1	123.1
175°	111.9	114.1	116.4	118.6	120.8
177.5°	107.4	114.1	116.4	118.6	116.4
180°	109.6	109.6	109.6	109.6	109.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	183.5	176.8	259.6	353.5	382.6
110°	194.7	179.0	266.3	360.2	396.0



(END OF REPORT)