

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: P520551

Luminaire Tested: **4WSLA-175-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520551
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-175-L940-UPL8-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

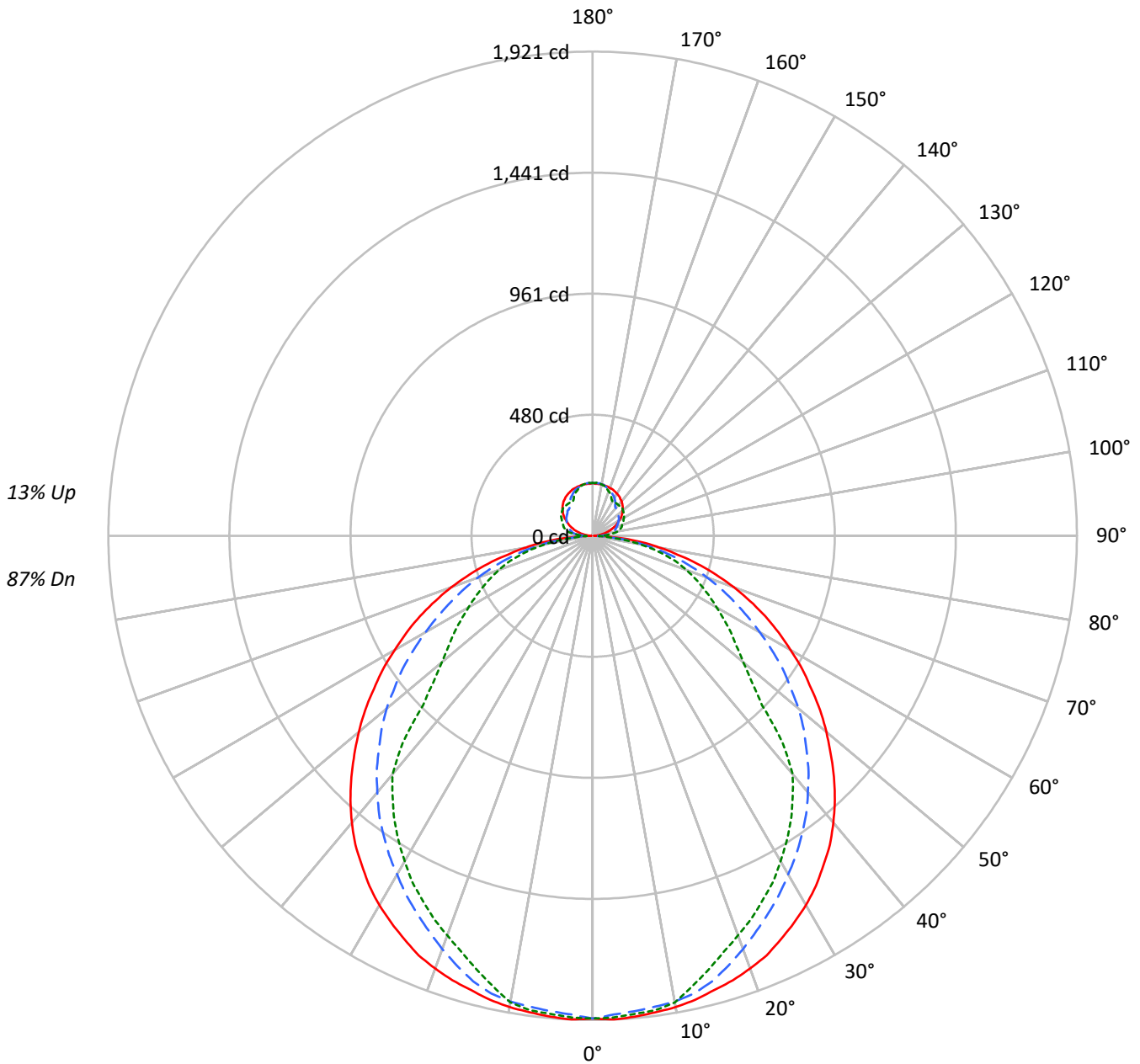
Lumens per Lamp: N/A
Luminaire Lumens: 5961.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	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°	10309	10309	10309
5°	10348	10229	10289
10°	10377	10257	10272
15°	10396	10196	9920
20°	10465	9991	9660
25°	10491	9803	9476
30°	10516	9642	9266
35°	10484	9506	9018
40°	10437	9333	8675
45°	10300	9125	7237
50°	10130	8930	6530
55°	9930	8637	6284
60°	9760	8247	6111
65°	9616	7897	6106
70°	9368	7589	6201
75°	8939	7222	6247
80°	8371	6493	5808
85°	7657	4594	3915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	3.0
10°-20°	515.5	8.6
20°-30°	770.3	12.9
30°-40°	919.5	15.4
40°-50°	919.6	15.4
50°-60°	795.9	13.4
60°-70°	610.9	10.2
70°-80°	374.3	6.3
80°-90°	105.4	1.8
90°-100°	59.6	1.0
100°-110°	94.5	1.6
110°-120°	110.5	1.9
120°-130°	119.3	2.0
130°-140°	117.6	2.0
140°-150°	104.0	1.7
150°-160°	85.6	1.4
160°-170°	57.3	1.0
170°-180°	20.0	0.3
0°-30°	1467.1	24.6
0°-40°	2386.7	40.0
0°-60°	4102.1	68.8
0°-90°	5192.7	87.1
90°-120°	264.6	4.4
90°-150°	605.5	10.2
90°-180°	768.0	12.9
0°-180°	5961.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1915	1915	1915	1915	1915	
5°	1915	1910	1893	1907	1904	182
15°	1866	1863	1830	1797	1780	528
25°	1767	1744	1651	1607	1596	815
35°	1596	1554	1447	1394	1372	999
45°	1353	1315	1199	1091	951	1043
55°	1058	1034	920	736	670	949
65°	755	728	620	499	480	746
75°	430	408	347	300	300	454
85°	124	102	74	63	63	130
90°	6	19	30	39	41	9
95°	22	47	63	66	66	22
105°	63	66	94	110	116	67
115°	105	88	110	127	135	102
125°	141	113	127	146	152	125
135°	168	152	141	154	163	130
145°	187	179	157	154	160	117
155°	198	196	185	176	174	92
165°	204	207	201	201	201	58
175°	207	210	210	212	212	20
180°	210	210	210	210	210	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1915.4	1915.4	1915.4	1915.4	1915.4
2.5°	1920.9	1915.4	1901.6	1915.4	1912.7
5°	1915.4	1909.9	1893.4	1907.1	1904.4
7.5°	1907.1	1901.6	1885.1	1901.6	1898.9
10°	1898.9	1893.4	1876.8	1887.8	1879.6
12.5°	1885.1	1879.6	1860.3	1846.5	1830.0
15°	1865.8	1863.0	1830.0	1796.9	1780.4
17.5°	1849.3	1841.0	1788.6	1750.1	1730.8
20°	1827.2	1813.4	1744.5	1700.4	1686.7
22.5°	1802.4	1780.4	1697.7	1656.3	1645.3
25°	1766.6	1744.5	1650.8	1606.7	1595.7
27.5°	1730.8	1703.2	1604.0	1559.9	1548.9
30°	1692.2	1653.6	1551.6	1510.3	1491.0
32.5°	1648.1	1609.5	1502.0	1455.2	1433.1
35°	1595.7	1554.4	1446.9	1394.5	1372.5
37.5°	1546.1	1502.0	1391.8	1333.9	1303.6
40°	1485.5	1441.4	1328.4	1265.0	1234.7
42.5°	1422.1	1380.7	1267.8	1190.6	1116.2
45°	1353.2	1314.6	1198.9	1091.4	950.8
47.5°	1281.5	1248.5	1135.5	989.4	854.4
50°	1209.9	1176.8	1066.6	892.9	779.9
52.5°	1138.2	1110.7	989.4	813.0	719.3
55°	1058.3	1033.5	920.5	735.8	669.7
57.5°	986.6	961.8	840.6	672.5	617.3
60°	906.7	884.7	766.2	609.1	567.7
62.5°	832.3	807.5	691.8	554.0	523.6
65°	755.1	727.6	620.1	498.8	479.5
67.5°	675.2	647.7	551.2	449.2	438.2
70°	595.3	573.2	482.3	399.6	394.1
72.5°	512.6	487.8	413.4	352.8	352.8
75°	429.9	407.9	347.3	300.4	300.4
77.5°	344.5	333.5	278.4	245.3	248.0
80°	270.1	256.3	209.5	187.4	187.4
82.5°	198.4	181.9	140.6	124.0	129.5
85°	124.0	102.0	74.4	63.4	63.4
87.5°	38.6	30.3	22.0	24.8	24.8
90°	5.5	19.3	30.3	38.6	41.3
92.5°	13.8	35.8	44.1	52.4	55.1
95°	22.0	46.9	63.4	66.1	66.1
97.5°	30.3	52.4	77.2	88.2	88.2
100°	41.3	55.1	82.7	99.2	102.0
102.5°	52.4	60.6	88.2	104.7	110.2
105°	63.4	66.1	93.7	110.2	115.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.7	82.7	104.7	124.0	129.5
115°	104.7	88.2	110.2	126.8	135.0
117.5°	113.0	96.5	115.8	132.3	137.8
120°	121.3	102.0	118.5	137.8	143.3
122.5°	132.3	107.5	124.0	140.6	148.8
125°	140.6	113.0	126.8	146.1	151.6
127.5°	148.8	124.0	129.5	148.8	154.3
130°	154.3	135.0	132.3	151.6	157.1
132.5°	162.6	143.3	135.0	154.3	159.8
135°	168.1	151.6	140.6	154.3	162.6
137.5°	173.6	159.8	140.6	154.3	159.8
140°	179.1	168.1	143.3	154.3	159.8
142.5°	181.9	173.6	146.1	154.3	159.8
145°	187.4	179.1	157.1	154.3	159.8
147.5°	190.2	184.7	165.4	154.3	159.8
150°	192.9	190.2	173.6	157.1	157.1
152.5°	195.7	192.9	179.1	168.1	162.6
155°	198.4	195.7	184.7	176.4	173.6
157.5°	201.2	201.2	190.2	184.7	181.9
160°	201.2	203.9	195.7	190.2	187.4
162.5°	203.9	206.7	198.4	195.7	192.9
165°	203.9	206.7	201.2	201.2	201.2
167.5°	206.7	209.5	206.7	203.9	203.9
170°	206.7	209.5	206.7	206.7	206.7
172.5°	206.7	209.5	209.5	209.5	209.5
175°	206.7	209.5	209.5	212.2	212.2
177.5°	206.7	209.5	209.5	209.5	209.5
180°	209.5	209.5	209.5	209.5	209.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	74.4	71.7	96.5	115.8	121.3
110°	82.7	77.2	102.0	118.5	124.0



(END OF REPORT)