

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: P520514

Luminaire Tested: **4WSLA-150-L840-UPL15-UNV-U**

Issue Date: 5/3/2021

**Test Information**

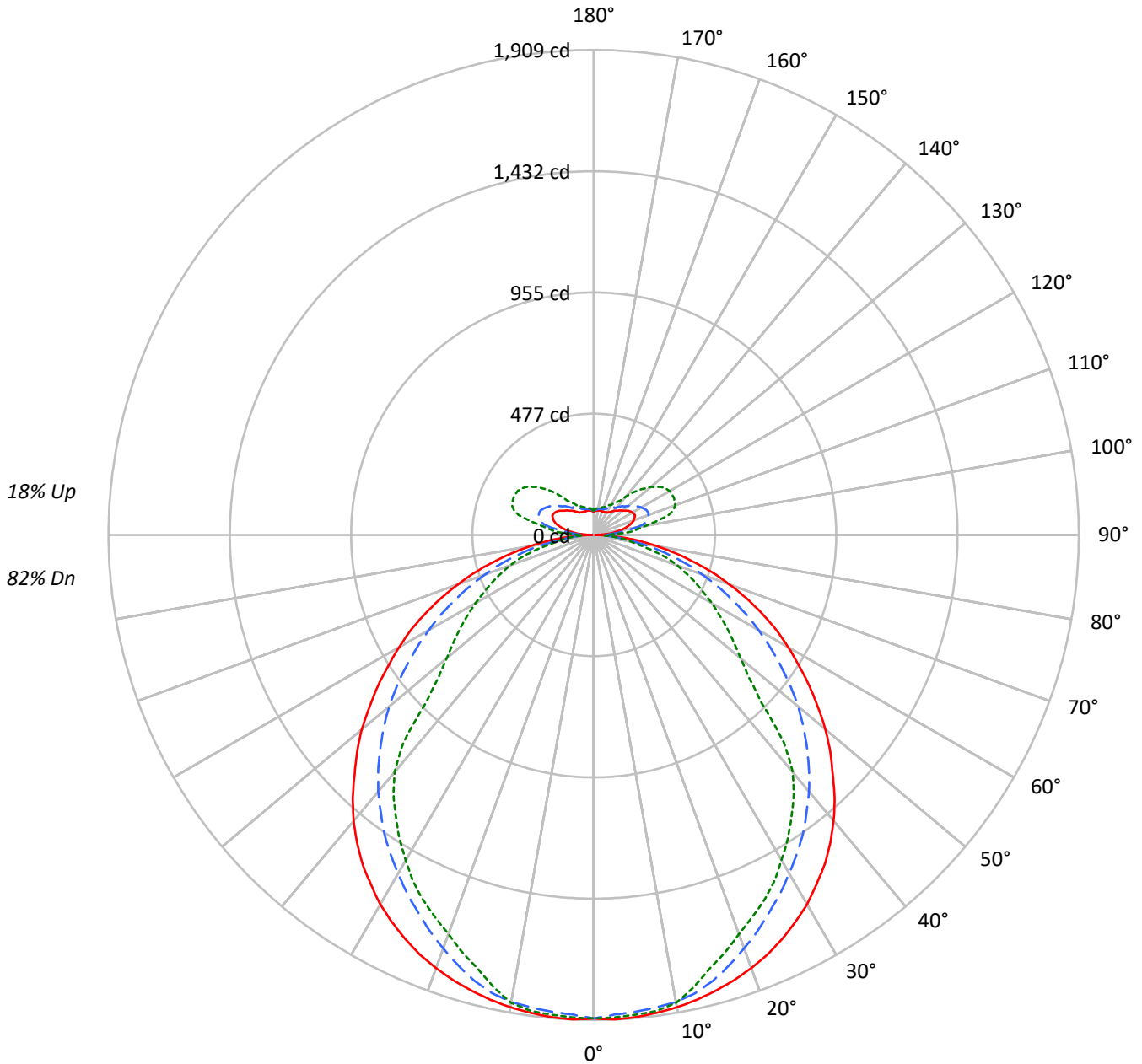
Test Method: LM-79-08  
Report Number: P520514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-150-L840-UPL15-UNV-U  
Description: 4 FOOT, 1500 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: 6164.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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): 47.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P520514  
CATALOG NUMBER: 4WSLA-150-L840-UPL15-UNV-U

### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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°	10243	10243	10243
5°	10293	10178	10241
10°	10317	10201	10222
15°	10346	10121	9841
20°	10392	9917	9574
25°	10419	9720	9422
30°	10437	9560	9189
35°	10412	9435	8916
40°	10321	9263	8557
45°	10123	9035	7096
50°	9972	8792	6319
55°	9727	8440	6014
60°	9516	8062	5776
65°	9293	7621	5605
70°	8930	7138	5498
75°	8430	6542	5057
80°	7717	5504	4488
85°	6916	4767	4533



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.4	2.9
10°-20°	512.4	8.3
20°-30°	764.7	12.4
30°-40°	911.2	14.8
40°-50°	906.3	14.7
50°-60°	776.7	12.6
60°-70°	585.0	9.5
70°-80°	338.8	5.5
80°-90°	101.8	1.7
90°-100°	109.3	1.8
100°-110°	224.5	3.6
110°-120°	237.4	3.9
120°-130°	198.0	3.2
130°-140°	138.3	2.2
140°-150°	86.1	1.4
150°-160°	53.4	0.9
160°-170°	30.1	0.5
170°-180°	9.7	0.2
0°-30°	1457.5	23.6
0°-40°	2368.6	38.4
0°-60°	4051.7	65.7
0°-90°	5077.3	82.4
90°-120°	571.2	9.3
90°-150°	993.6	16.1
90°-180°	1087.0	17.6
0°-180°	6164.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1905	1899	1884	1898	1896	181
15°	1857	1855	1816	1786	1766	525
25°	1755	1730	1637	1596	1587	809
35°	1585	1542	1436	1380	1357	990
45°	1330	1297	1187	1069	932	1028
55°	1037	1021	900	714	641	927
65°	730	712	598	465	440	721
75°	405	392	315	251	243	429
85°	112	98	77	73	73	119
90°	6	27	46	58	62	11
95°	62	83	95	139	151	59
105°	145	151	216	290	307	150
115°	180	152	230	317	348	175
125°	166	147	199	292	328	147
135°	135	147	160	216	249	105
145°	110	127	139	149	158	70
155°	100	106	114	124	126	46
165°	98	102	106	110	110	28
175°	96	98	100	102	104	9
180°	95	95	95	95	95	



TEST NUMBER: P520514

CATALOG NUMBER: 4WSLA-150-L840-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1903.3	1903.3	1903.3	1903.3	1903.3
2.5°	1909.1	1905.2	1889.8	1905.2	1901.3
5°	1905.2	1899.4	1884.0	1897.5	1895.6
7.5°	1897.5	1893.6	1876.2	1891.7	1889.8
10°	1887.8	1882.0	1866.6	1878.2	1870.5
12.5°	1874.3	1870.5	1847.3	1837.6	1822.2
15°	1856.9	1855.0	1816.4	1785.5	1766.2
17.5°	1837.6	1829.9	1775.9	1739.2	1721.8
20°	1814.5	1802.9	1731.5	1689.0	1671.6
22.5°	1787.5	1770.1	1687.1	1646.5	1629.2
25°	1754.6	1729.5	1636.9	1596.4	1586.7
27.5°	1718.0	1689.0	1590.6	1550.0	1538.4
30°	1679.4	1642.7	1538.4	1499.8	1478.6
32.5°	1631.1	1596.4	1488.3	1443.9	1420.7
35°	1584.8	1542.3	1436.1	1380.2	1357.0
37.5°	1528.8	1486.3	1376.3	1320.3	1293.3
40°	1469.0	1426.5	1318.4	1252.8	1218.0
42.5°	1403.3	1364.7	1254.7	1175.6	1108.0
45°	1330.0	1297.2	1187.1	1069.4	932.3
47.5°	1262.4	1231.5	1119.6	967.1	826.2
50°	1191.0	1162.0	1050.1	870.6	754.7
52.5°	1111.9	1090.6	974.8	787.6	694.9
55°	1036.6	1021.1	899.5	714.2	640.9
57.5°	957.4	942.0	824.2	644.7	586.8
60°	884.1	868.6	749.0	582.9	536.6
62.5°	810.7	789.5	675.6	523.1	484.5
65°	729.7	712.3	598.4	465.2	440.1
67.5°	648.6	633.1	527.0	411.2	393.8
70°	567.5	554.0	453.6	359.0	349.4
72.5°	488.4	471.0	388.0	306.9	303.1
75°	405.4	391.9	314.6	250.9	243.2
77.5°	326.2	314.6	247.1	191.1	185.3
80°	249.0	237.4	177.6	139.0	144.8
82.5°	183.4	167.9	119.7	108.1	113.9
85°	112.0	98.4	77.2	73.4	73.4
87.5°	38.6	36.7	34.7	40.5	42.5
90°	5.8	27.0	46.3	57.9	61.8
92.5°	32.8	48.3	63.7	75.3	79.1
95°	61.8	83.0	94.6	139.0	150.6
97.5°	84.9	110.0	123.5	164.1	175.7
100°	108.1	131.3	173.7	195.0	208.5
102.5°	127.4	144.8	204.6	247.1	254.8
105°	144.8	150.6	216.2	289.5	306.9



TEST NUMBER: P520514

CATALOG NUMBER: 4WSLA-150-L840-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	173.7	154.4	231.6	314.6	345.5
115°	179.5	152.5	229.7	316.6	347.5
117.5°	179.5	152.5	223.9	316.6	347.5
120°	175.7	154.4	216.2	312.7	345.5
122.5°	171.8	150.6	208.5	305.0	337.8
125°	166.0	146.7	198.8	291.5	328.2
127.5°	156.4	150.6	189.2	274.1	310.8
130°	148.6	152.5	177.6	256.7	293.4
132.5°	142.8	148.6	166.0	237.4	270.2
135°	135.1	146.7	160.2	216.2	249.0
137.5°	129.3	140.9	150.6	196.9	223.9
140°	123.5	137.1	140.9	171.8	195.0
142.5°	115.8	131.3	133.2	160.2	169.9
145°	110.0	127.4	139.0	148.6	158.3
147.5°	104.2	119.7	135.1	137.1	146.7
150°	102.3	112.0	129.3	131.3	135.1
152.5°	100.4	108.1	119.7	131.3	133.2
155°	100.4	106.2	113.9	123.5	125.5
157.5°	98.4	106.2	110.0	117.7	119.7
160°	98.4	104.2	108.1	113.9	115.8
162.5°	98.4	104.2	106.2	112.0	113.9
165°	98.4	102.3	106.2	110.0	110.0
167.5°	98.4	102.3	104.2	108.1	108.1
170°	98.4	100.4	104.2	106.2	106.2
172.5°	96.5	100.4	102.3	106.2	106.2
175°	96.5	98.4	100.4	102.3	104.2
177.5°	92.7	98.4	100.4	102.3	100.4
180°	94.6	94.6	94.6	94.6	94.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	158.3	152.5	223.9	305.0	330.1
110°	167.9	154.4	229.7	310.8	341.7



(END OF REPORT)