

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: P520515

Luminaire Tested: **4WSLA-150-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520515
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-L840-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

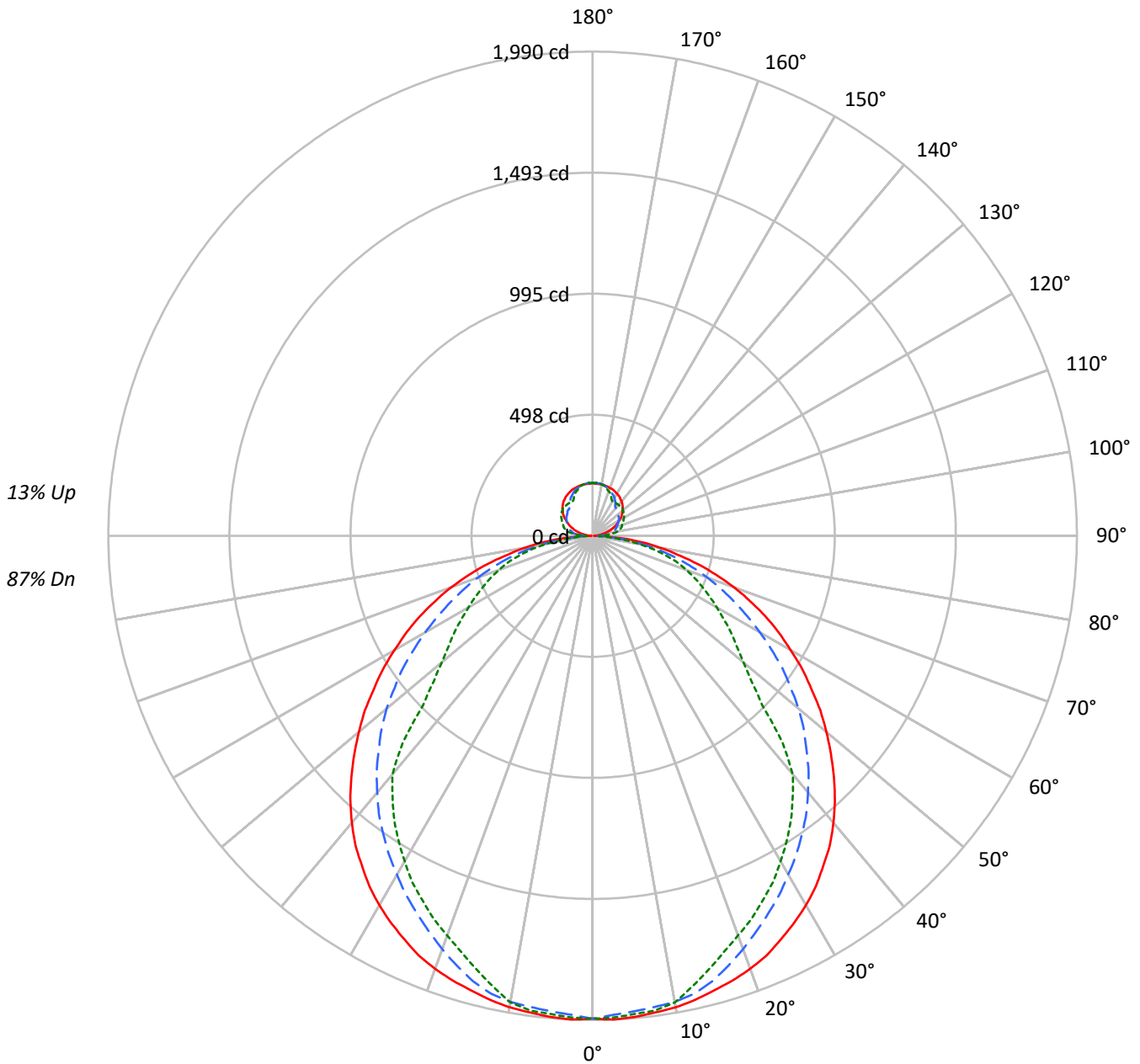
Lumens per Lamp: N/A
Luminaire Lumens: 6177.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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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°	10682	10682	10682
5°	10723	10600	10661
10°	10753	10628	10644
15°	10773	10566	10279
20°	10844	10354	10010
25°	10871	10159	9819
30°	10897	9992	9601
35°	10864	9851	9344
40°	10815	9671	8989
45°	10672	9455	7499
50°	10497	9254	6767
55°	10290	8951	6512
60°	10114	8545	6332
65°	9965	8183	6328
70°	9707	7865	6426
75°	9264	7482	6473
80°	8675	6726	6019
85°	7935	4761	4057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.0
10°-20°	534.2	8.6
20°-30°	798.2	12.9
30°-40°	952.8	15.4
40°-50°	952.9	15.4
50°-60°	824.7	13.4
60°-70°	633.0	10.2
70°-80°	387.9	6.3
80°-90°	109.2	1.8
90°-100°	61.7	1.0
100°-110°	98.0	1.6
110°-120°	114.5	1.9
120°-130°	123.6	2.0
130°-140°	121.8	2.0
140°-150°	107.8	1.7
150°-160°	88.7	1.4
160°-170°	59.4	1.0
170°-180°	20.7	0.3
0°-30°	1520.3	24.6
0°-40°	2473.1	40.0
0°-60°	4250.8	68.8
0°-90°	5380.8	87.1
90°-120°	274.2	4.4
90°-150°	627.4	10.2
90°-180°	796.0	12.9
0°-180°	6177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1985	1985	1985	1985	1985	
5°	1985	1979	1962	1976	1973	189
15°	1933	1931	1896	1862	1845	547
25°	1831	1808	1711	1665	1654	845
35°	1654	1611	1499	1445	1422	1035
45°	1402	1362	1242	1131	985	1081
55°	1097	1071	954	762	694	983
65°	782	754	643	517	497	773
75°	446	423	360	311	311	470
85°	128	106	77	66	66	134
90°	6	20	31	40	43	9
95°	23	48	66	68	68	23
105°	66	68	97	114	120	69
115°	108	91	114	131	140	106
125°	146	117	131	151	157	130
135°	174	157	146	160	168	134
145°	194	186	163	160	166	121
155°	206	203	191	183	180	95
165°	211	214	208	208	208	60
175°	214	217	217	220	220	20
180°	217	217	217	217	217	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1984.8	1984.8	1984.8	1984.8	1984.8
2.5°	1990.5	1984.8	1970.5	1984.8	1982.0
5°	1984.8	1979.1	1962.0	1976.2	1973.4
7.5°	1976.2	1970.5	1953.4	1970.5	1967.7
10°	1967.7	1962.0	1944.8	1956.3	1947.7
12.5°	1953.4	1947.7	1927.7	1913.4	1896.3
15°	1933.4	1930.6	1896.3	1862.0	1844.9
17.5°	1916.3	1907.7	1853.4	1813.5	1793.5
20°	1893.4	1879.1	1807.8	1762.1	1747.8
22.5°	1867.7	1844.9	1759.2	1716.4	1704.9
25°	1830.6	1807.8	1710.7	1665.0	1653.5
27.5°	1793.5	1764.9	1662.1	1616.4	1605.0
30°	1753.5	1713.5	1607.8	1565.0	1545.0
32.5°	1707.8	1667.8	1556.4	1507.9	1485.0
35°	1653.5	1610.7	1499.3	1445.1	1422.2
37.5°	1602.1	1556.4	1442.2	1382.2	1350.8
40°	1539.3	1493.6	1376.5	1310.8	1279.4
42.5°	1473.6	1430.8	1313.7	1233.7	1156.6
45°	1402.2	1362.2	1242.3	1130.9	985.3
47.5°	1328.0	1293.7	1176.6	1025.3	885.3
50°	1253.7	1219.4	1105.2	925.3	808.2
52.5°	1179.5	1150.9	1025.3	842.5	745.4
55°	1096.6	1070.9	953.9	762.5	694.0
57.5°	1022.4	996.7	871.0	696.8	639.7
60°	939.6	916.7	793.9	631.1	588.3
62.5°	862.5	836.8	716.8	574.0	542.6
65°	782.5	753.9	642.6	516.9	496.9
67.5°	699.7	671.1	571.2	465.5	454.1
70°	616.9	594.0	499.8	414.1	408.4
72.5°	531.2	505.5	428.4	365.5	365.5
75°	445.5	422.7	359.8	311.3	311.3
77.5°	357.0	345.6	288.4	254.2	257.0
80°	279.9	265.6	217.0	194.2	194.2
82.5°	205.6	188.5	145.6	128.5	134.2
85°	128.5	105.7	77.1	65.7	65.7
87.5°	40.0	31.4	22.8	25.7	25.7
90°	5.7	20.0	31.4	40.0	42.8
92.5°	14.3	37.1	45.7	54.3	57.1
95°	22.8	48.5	65.7	68.5	68.5
97.5°	31.4	54.3	80.0	91.4	91.4
100°	42.8	57.1	85.7	102.8	105.7
102.5°	54.3	62.8	91.4	108.5	114.2
105°	65.7	68.5	97.1	114.2	119.9



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CATALOG NUMBER: 4WSLA-150-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	97.1	85.7	108.5	128.5	134.2
115°	108.5	91.4	114.2	131.4	139.9
117.5°	117.1	100.0	119.9	137.1	142.8
120°	125.7	105.7	122.8	142.8	148.5
122.5°	137.1	111.4	128.5	145.6	154.2
125°	145.6	117.1	131.4	151.4	157.1
127.5°	154.2	128.5	134.2	154.2	159.9
130°	159.9	139.9	137.1	157.1	162.8
132.5°	168.5	148.5	139.9	159.9	165.6
135°	174.2	157.1	145.6	159.9	168.5
137.5°	179.9	165.6	145.6	159.9	165.6
140°	185.6	174.2	148.5	159.9	165.6
142.5°	188.5	179.9	151.4	159.9	165.6
145°	194.2	185.6	162.8	159.9	165.6
147.5°	197.1	191.3	171.4	159.9	165.6
150°	199.9	197.1	179.9	162.8	162.8
152.5°	202.8	199.9	185.6	174.2	168.5
155°	205.6	202.8	191.3	182.8	179.9
157.5°	208.5	208.5	197.1	191.3	188.5
160°	208.5	211.3	202.8	197.1	194.2
162.5°	211.3	214.2	205.6	202.8	199.9
165°	211.3	214.2	208.5	208.5	208.5
167.5°	214.2	217.0	214.2	211.3	211.3
170°	214.2	217.0	214.2	214.2	214.2
172.5°	214.2	217.0	217.0	217.0	217.0
175°	214.2	217.0	217.0	219.9	219.9
177.5°	214.2	217.0	217.0	217.0	217.0
180°	217.0	217.0	217.0	217.0	217.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	77.1	74.3	100.0	119.9	125.7
110°	85.7	80.0	105.7	122.8	128.5



(END OF REPORT)