

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: P520526

Luminaire Tested: **4WSLA-150-L940-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520526
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-L940-UPL15-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

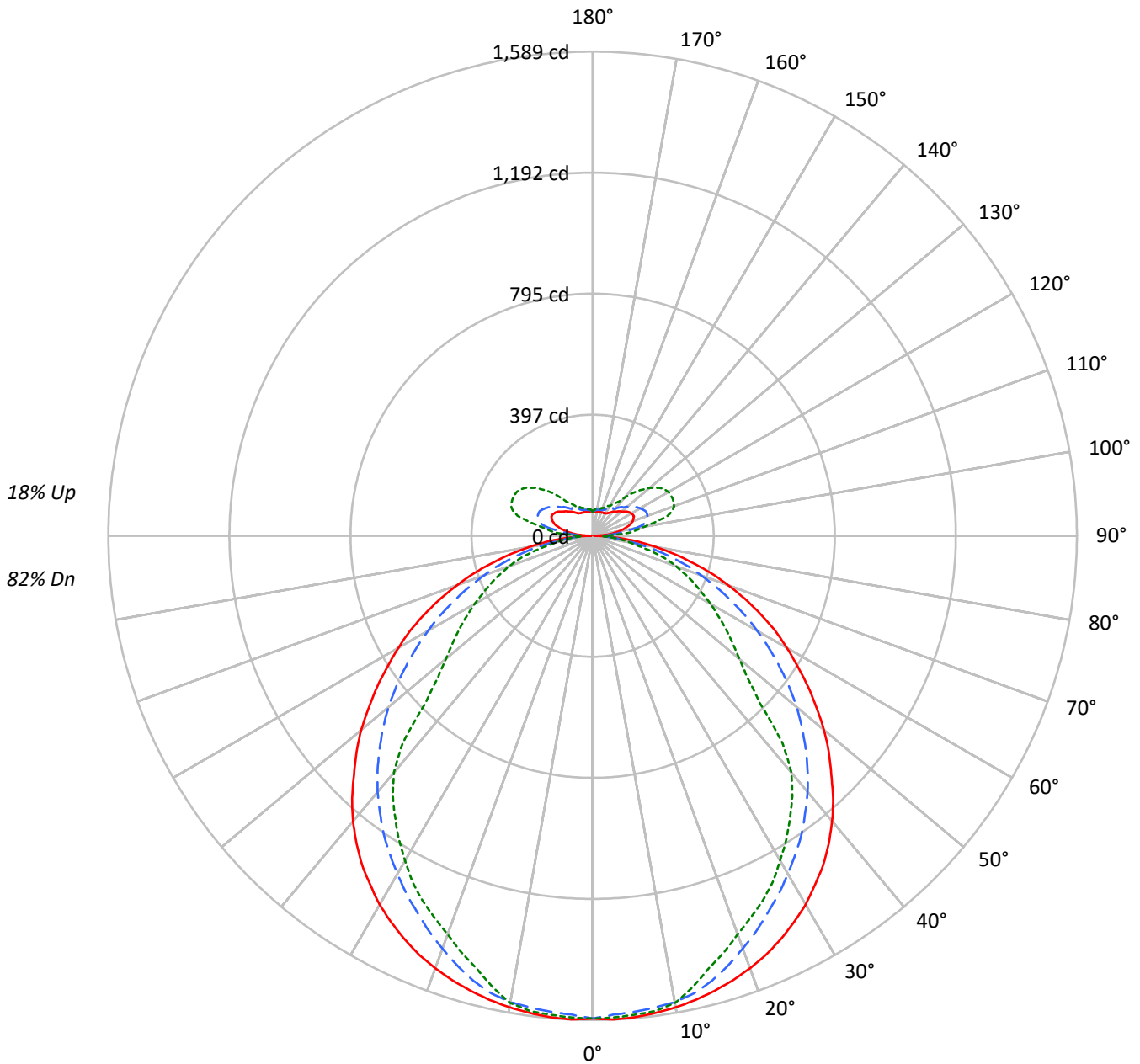
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.0 lumens
Efficiency: N/A
Efficacy: 107.6 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_{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°	8527	8527	8527
5°	8568	8472	8525
10°	8588	8491	8509
15°	8612	8425	8192
20°	8651	8255	7970
25°	8674	8092	7843
30°	8687	7958	7649
35°	8667	7855	7422
40°	8591	7710	7123
45°	8426	7521	5907
50°	8301	7319	5261
55°	8097	7026	5006
60°	7921	6710	4808
65°	7735	6343	4666
70°	7434	5942	4576
75°	7016	5446	4211
80°	6425	4581	3735
85°	5755	3971	3773



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	2.9
10°-20°	426.5	8.3
20°-30°	636.5	12.4
30°-40°	758.5	14.8
40°-50°	754.4	14.7
50°-60°	646.6	12.6
60°-70°	486.9	9.5
70°-80°	282.0	5.5
80°-90°	84.7	1.7
90°-100°	91.0	1.8
100°-110°	186.9	3.6
110°-120°	197.6	3.9
120°-130°	164.8	3.2
130°-140°	115.1	2.2
140°-150°	71.7	1.4
150°-160°	44.4	0.9
160°-170°	25.0	0.5
170°-180°	8.1	0.2
0°-30°	1213.2	23.6
0°-40°	1971.7	38.4
0°-60°	3372.7	65.7
0°-90°	4226.4	82.4
90°-120°	475.4	9.3
90°-150°	827.1	16.1
90°-180°	905.0	17.6
0°-180°	5131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1586	1581	1568	1580	1578	151
15°	1546	1544	1512	1486	1470	437
25°	1461	1440	1363	1329	1321	673
35°	1319	1284	1196	1149	1130	824
45°	1107	1080	988	890	776	856
55°	863	850	749	594	534	771
65°	607	593	498	387	366	600
75°	337	326	262	209	202	357
85°	93	82	64	61	61	99
90°	5	22	39	48	51	9
95°	51	69	79	116	125	49
105°	120	125	180	241	256	125
115°	149	127	191	264	289	145
125°	138	122	166	243	273	123
135°	112	122	133	180	207	88
145°	92	106	116	124	132	58
155°	84	88	95	103	104	39
165°	82	85	88	92	92	23
175°	80	82	84	85	87	8
180°	79	79	79	79	79	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1584.3	1584.3	1584.3	1584.3	1584.3
2.5°	1589.1	1585.9	1573.1	1585.9	1582.7
5°	1585.9	1581.1	1568.2	1579.5	1577.9
7.5°	1579.5	1576.3	1561.8	1574.7	1573.1
10°	1571.5	1566.6	1553.8	1563.4	1557.0
12.5°	1560.2	1557.0	1537.7	1529.7	1516.8
15°	1545.7	1544.1	1512.0	1486.3	1470.2
17.5°	1529.7	1523.3	1478.3	1447.7	1433.3
20°	1510.4	1500.8	1441.3	1406.0	1391.5
22.5°	1487.9	1473.4	1404.3	1370.6	1356.1
25°	1460.6	1439.7	1362.6	1328.8	1320.8
27.5°	1430.1	1406.0	1324.0	1290.3	1280.6
30°	1397.9	1367.4	1280.6	1248.5	1230.8
32.5°	1357.8	1328.8	1238.8	1201.9	1182.6
35°	1319.2	1283.8	1195.5	1148.9	1129.6
37.5°	1272.6	1237.2	1145.7	1099.1	1076.6
40°	1222.8	1187.4	1097.4	1042.8	1013.9
42.5°	1168.1	1136.0	1044.4	978.5	922.3
45°	1107.1	1079.8	988.2	890.2	776.1
47.5°	1050.9	1025.1	931.9	805.0	687.7
50°	991.4	967.3	874.1	724.7	628.3
52.5°	925.5	907.8	811.4	655.6	578.5
55°	862.9	850.0	748.8	594.5	533.5
57.5°	797.0	784.1	686.1	536.7	488.5
60°	735.9	723.1	623.4	485.3	446.7
62.5°	674.9	657.2	562.4	435.4	403.3
65°	607.4	592.9	498.1	387.2	366.4
67.5°	539.9	527.0	438.7	342.2	327.8
70°	472.4	461.2	377.6	298.9	290.8
72.5°	406.5	392.1	323.0	255.5	252.3
75°	337.4	326.2	261.9	208.9	202.5
77.5°	271.6	261.9	205.7	159.1	154.3
80°	207.3	197.6	147.8	115.7	120.5
82.5°	152.6	139.8	99.6	90.0	94.8
85°	93.2	81.9	64.3	61.1	61.1
87.5°	32.1	30.5	28.9	33.7	35.3
90°	4.8	22.5	38.6	48.2	51.4
92.5°	27.3	40.2	53.0	62.7	65.9
95°	51.4	69.1	78.7	115.7	125.3
97.5°	70.7	91.6	102.8	136.6	146.2
100°	90.0	109.3	144.6	162.3	173.5
102.5°	106.0	120.5	170.3	205.7	212.1
105°	120.5	125.3	180.0	241.0	255.5



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CATALOG NUMBER: 4WSLA-150-L940-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	144.6	128.5	192.8	261.9	287.6
115°	149.4	126.9	191.2	263.5	289.2
117.5°	149.4	126.9	186.4	263.5	289.2
120°	146.2	128.5	180.0	260.3	287.6
122.5°	143.0	125.3	173.5	253.9	281.2
125°	138.2	122.1	165.5	242.6	273.2
127.5°	130.2	125.3	157.5	228.2	258.7
130°	123.7	126.9	147.8	213.7	244.2
132.5°	118.9	123.7	138.2	197.6	225.0
135°	112.5	122.1	133.4	180.0	207.3
137.5°	107.7	117.3	125.3	163.9	186.4
140°	102.8	114.1	117.3	143.0	162.3
142.5°	96.4	109.3	110.9	133.4	141.4
145°	91.6	106.0	115.7	123.7	131.8
147.5°	86.8	99.6	112.5	114.1	122.1
150°	85.2	93.2	107.7	109.3	112.5
152.5°	83.6	90.0	99.6	109.3	110.9
155°	83.6	88.4	94.8	102.8	104.4
157.5°	81.9	88.4	91.6	98.0	99.6
160°	81.9	86.8	90.0	94.8	96.4
162.5°	81.9	86.8	88.4	93.2	94.8
165°	81.9	85.2	88.4	91.6	91.6
167.5°	81.9	85.2	86.8	90.0	90.0
170°	81.9	83.6	86.8	88.4	88.4
172.5°	80.3	83.6	85.2	88.4	88.4
175°	80.3	81.9	83.6	85.2	86.8
177.5°	77.1	81.9	83.6	85.2	83.6
180°	78.7	78.7	78.7	78.7	78.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	131.8	126.9	186.4	253.9	274.8
110°	139.8	128.5	191.2	258.7	284.4



(END OF REPORT)