

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: P520527

Luminaire Tested: **4WSLA-150-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520527
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-L940-UPL8-UNV-U
Description: 4 FOOT, 1500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

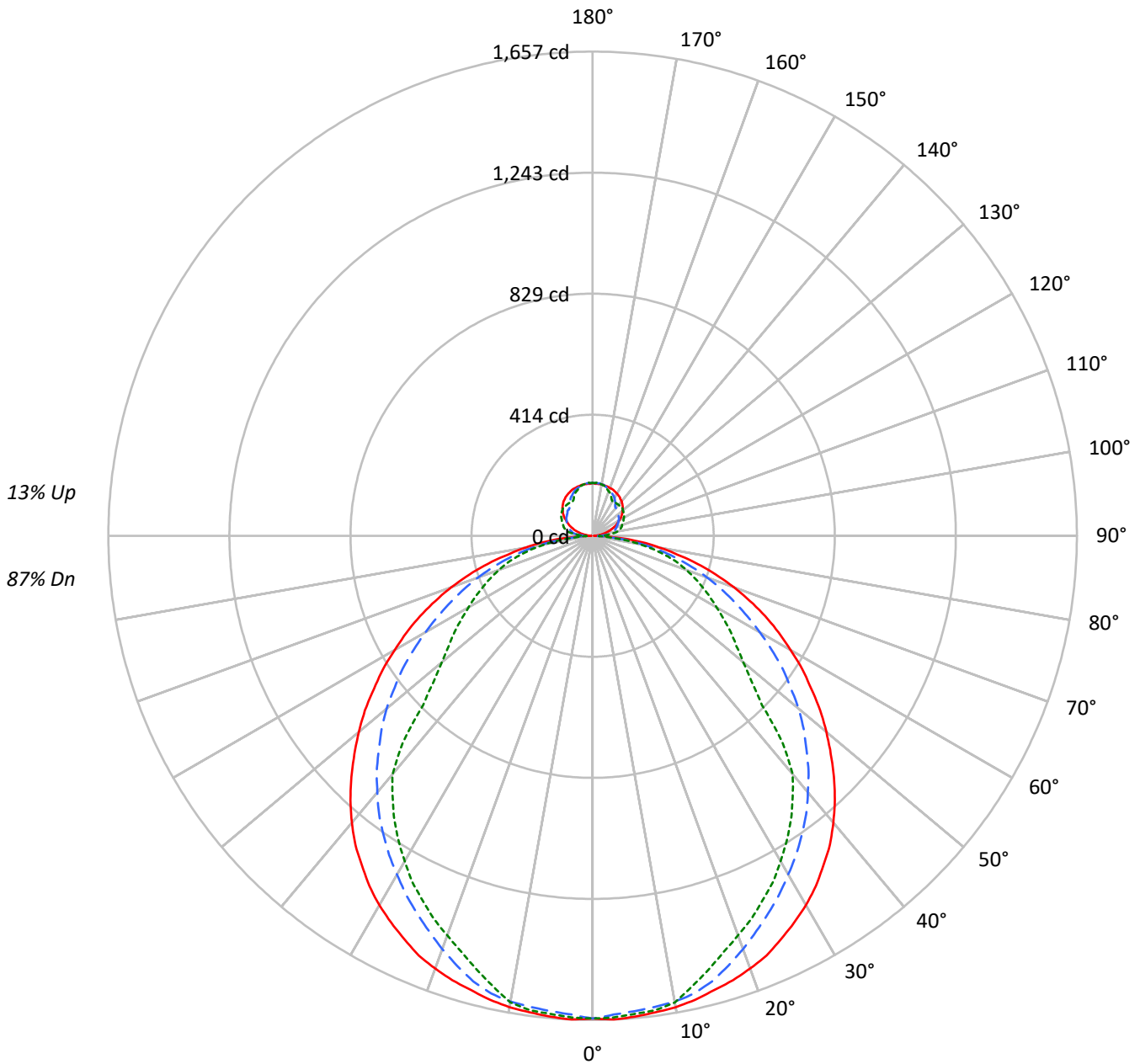
Lumens per Lamp: N/A
Luminaire Lumens: 5142.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	8892	8892	8892
5°	8926	8823	8875
10°	8952	8848	8860
15°	8968	8795	8557
20°	9027	8619	8333
25°	9049	8456	8174
30°	9071	8318	7993
35°	9044	8200	7778
40°	9003	8051	7482
45°	8885	7871	6243
50°	8738	7703	5633
55°	8566	7450	5421
60°	8418	7114	5271
65°	8295	6812	5268
70°	8080	6546	5350
75°	7713	6228	5388
80°	7221	5601	5012
85°	6607	3964	3378



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.4	3.0
10°-20°	444.7	8.6
20°-30°	664.5	12.9
30°-40°	793.2	15.4
40°-50°	793.3	15.4
50°-60°	686.5	13.4
60°-70°	526.9	10.2
70°-80°	322.9	6.3
80°-90°	90.9	1.8
90°-100°	51.4	1.0
100°-110°	81.5	1.6
110°-120°	95.3	1.9
120°-130°	102.9	2.0
130°-140°	101.4	2.0
140°-150°	89.7	1.7
150°-160°	73.8	1.4
160°-170°	49.4	1.0
170°-180°	17.2	0.3
0°-30°	1265.6	24.6
0°-40°	2058.8	40.0
0°-60°	3538.5	68.8
0°-90°	4479.3	87.1
90°-120°	228.3	4.4
90°-150°	522.3	10.2
90°-180°	663.0	12.9
0°-180°	5142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1652	1652	1652	1652	1652	
5°	1652	1648	1633	1645	1643	157
15°	1610	1607	1578	1550	1536	455
25°	1524	1505	1424	1386	1376	703
35°	1376	1341	1248	1203	1184	862
45°	1167	1134	1034	941	820	900
55°	913	892	794	635	578	818
65°	651	628	535	430	414	643
75°	371	352	300	259	259	391
85°	107	88	64	55	55	112
90°	5	17	26	33	36	8
95°	19	40	55	57	57	19
105°	55	57	81	95	100	57
115°	90	76	95	109	116	88
125°	121	98	109	126	131	108
135°	145	131	121	133	140	112
145°	162	154	136	133	138	101
155°	171	169	159	152	150	79
165°	176	178	174	174	174	50
175°	178	181	181	183	183	17
180°	181	181	181	181	181	



TEST NUMBER: P520527

CATALOG NUMBER: 4WSLA-150-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1652.2	1652.2	1652.2	1652.2	1652.2
2.5°	1657.0	1652.2	1640.4	1652.2	1649.9
5°	1652.2	1647.5	1633.2	1645.1	1642.7
7.5°	1645.1	1640.4	1626.1	1640.4	1638.0
10°	1638.0	1633.2	1619.0	1628.5	1621.3
12.5°	1626.1	1621.3	1604.7	1592.8	1578.5
15°	1609.5	1607.1	1578.5	1550.0	1535.8
17.5°	1595.2	1588.1	1542.9	1509.6	1493.0
20°	1576.2	1564.3	1504.9	1466.8	1454.9
22.5°	1554.8	1535.8	1464.4	1428.8	1419.3
25°	1523.9	1504.9	1424.0	1386.0	1376.5
27.5°	1493.0	1469.2	1383.6	1345.6	1336.1
30°	1459.7	1426.4	1338.4	1302.8	1286.1
32.5°	1421.6	1388.4	1295.6	1255.2	1236.2
35°	1376.5	1340.8	1248.1	1202.9	1183.9
37.5°	1333.7	1295.6	1200.6	1150.6	1124.5
40°	1281.4	1243.3	1145.9	1091.2	1065.0
42.5°	1226.7	1191.0	1093.6	1027.0	962.8
45°	1167.3	1134.0	1034.1	941.4	820.2
47.5°	1105.5	1076.9	979.5	853.5	737.0
50°	1043.6	1015.1	920.0	770.3	672.8
52.5°	981.8	958.1	853.5	701.3	620.5
55°	912.9	891.5	794.0	634.7	577.7
57.5°	851.1	829.7	725.1	580.1	532.5
60°	782.1	763.1	660.9	525.4	489.7
62.5°	718.0	696.6	596.7	477.8	451.7
65°	651.4	627.6	534.9	430.3	413.7
67.5°	582.4	558.7	475.5	387.5	378.0
70°	513.5	494.5	416.0	344.7	340.0
72.5°	442.2	420.8	356.6	304.3	304.3
75°	370.9	351.8	299.5	259.1	259.1
77.5°	297.2	287.7	240.1	211.6	214.0
80°	233.0	221.1	180.7	161.7	161.7
82.5°	171.2	156.9	121.2	107.0	111.7
85°	107.0	88.0	64.2	54.7	54.7
87.5°	33.3	26.2	19.0	21.4	21.4
90°	4.8	16.6	26.2	33.3	35.7
92.5°	11.9	30.9	38.0	45.2	47.5
95°	19.0	40.4	54.7	57.1	57.1
97.5°	26.2	45.2	66.6	76.1	76.1
100°	35.7	47.5	71.3	85.6	88.0
102.5°	45.2	52.3	76.1	90.3	95.1
105°	54.7	57.1	80.8	95.1	99.8



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CATALOG NUMBER: 4WSLA-150-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.8	71.3	90.3	107.0	111.7
115°	90.3	76.1	95.1	109.4	116.5
117.5°	97.5	83.2	99.8	114.1	118.9
120°	104.6	88.0	102.2	118.9	123.6
122.5°	114.1	92.7	107.0	121.2	128.4
125°	121.2	97.5	109.4	126.0	130.8
127.5°	128.4	107.0	111.7	128.4	133.1
130°	133.1	116.5	114.1	130.8	135.5
132.5°	140.3	123.6	116.5	133.1	137.9
135°	145.0	130.8	121.2	133.1	140.3
137.5°	149.8	137.9	121.2	133.1	137.9
140°	154.5	145.0	123.6	133.1	137.9
142.5°	156.9	149.8	126.0	133.1	137.9
145°	161.7	154.5	135.5	133.1	137.9
147.5°	164.0	159.3	142.6	133.1	137.9
150°	166.4	164.0	149.8	135.5	135.5
152.5°	168.8	166.4	154.5	145.0	140.3
155°	171.2	168.8	159.3	152.1	149.8
157.5°	173.5	173.5	164.0	159.3	156.9
160°	173.5	175.9	168.8	164.0	161.7
162.5°	175.9	178.3	171.2	168.8	166.4
165°	175.9	178.3	173.5	173.5	173.5
167.5°	178.3	180.7	178.3	175.9	175.9
170°	178.3	180.7	178.3	178.3	178.3
172.5°	178.3	180.7	180.7	180.7	180.7
175°	178.3	180.7	180.7	183.1	183.1
177.5°	178.3	180.7	180.7	180.7	180.7
180°	180.7	180.7	180.7	180.7	180.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	64.2	61.8	83.2	99.8	104.6
110°	71.3	66.6	88.0	102.2	107.0



(END OF REPORT)