

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: P520467

Luminaire Tested: **4WSLA-100-L840-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520467
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-100-L840-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

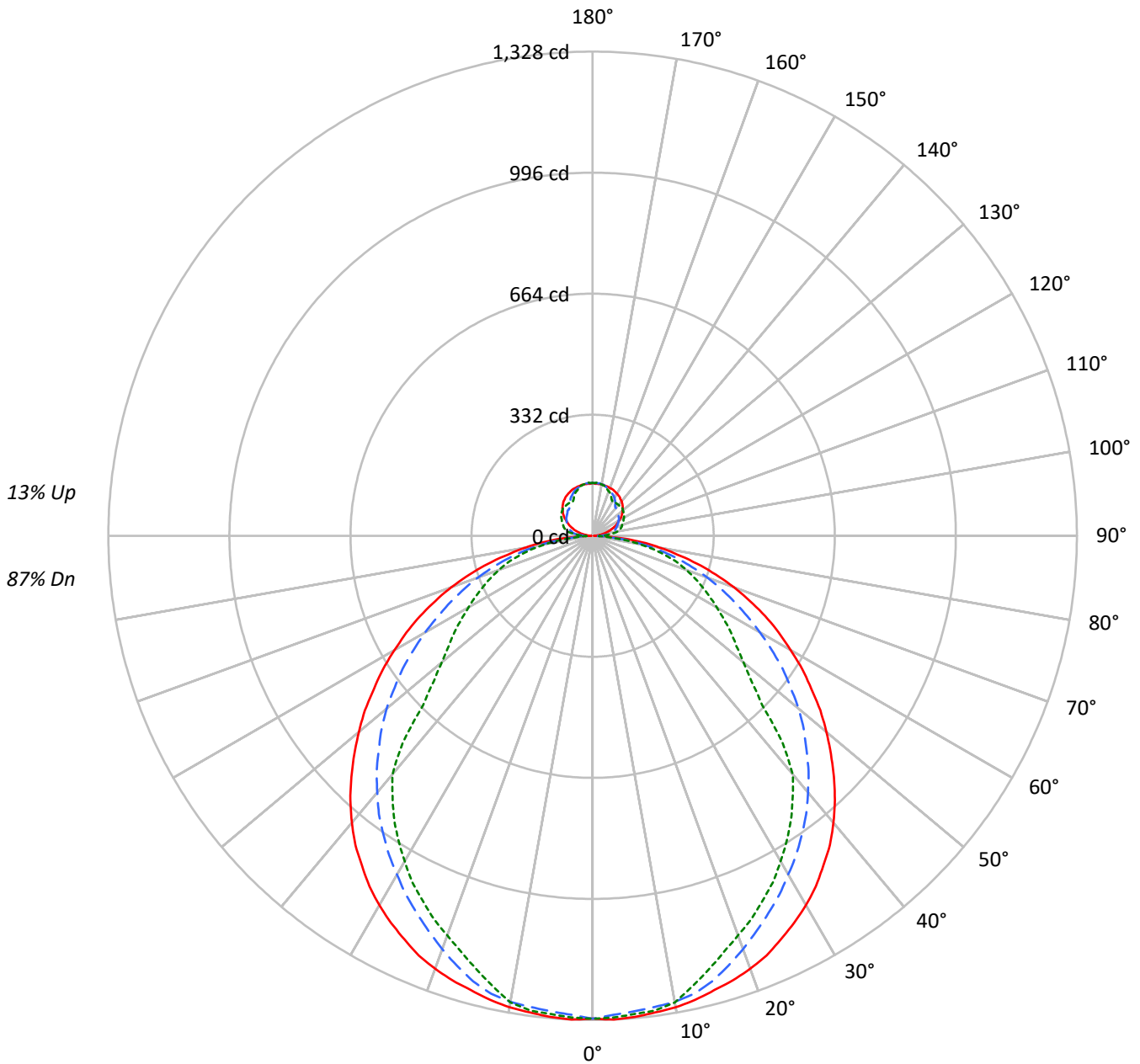
Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 31.6
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

TEST NUMBER: P520467

CATALOG NUMBER: 4WSLA-100-L840-UPL8-UNV-U

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°	7128	7128	7128
5°	7156	7073	7115
10°	7176	7092	7103
15°	7189	7051	6859
20°	7237	6909	6680
25°	7254	6779	6552
30°	7272	6668	6407
35°	7250	6573	6236
40°	7217	6454	5998
45°	7122	6310	5004
50°	7005	6175	4515
55°	6867	5972	4345
60°	6749	5703	4226
65°	6650	5461	4223
70°	6477	5248	4288
75°	6182	4993	4319
80°	5790	4488	4017
85°	5298	3180	2705



TEST NUMBER: P520467

CATALOG NUMBER: 4WSLA-100-L840-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.0
10°-20°	356.5	8.6
20°-30°	532.7	12.9
30°-40°	635.8	15.4
40°-50°	635.9	15.4
50°-60°	550.3	13.4
60°-70°	422.4	10.2
70°-80°	258.8	6.3
80°-90°	72.9	1.8
90°-100°	41.2	1.0
100°-110°	65.4	1.6
110°-120°	76.4	1.9
120°-130°	82.5	2.0
130°-140°	81.3	2.0
140°-150°	71.9	1.7
150°-160°	59.2	1.4
160°-170°	39.6	1.0
170°-180°	13.8	0.3
0°-30°	1014.5	24.6
0°-40°	1650.4	40.0
0°-60°	2836.6	68.8
0°-90°	3590.7	87.1
90°-120°	183.0	4.4
90°-150°	418.7	10.2
90°-180°	531.0	12.9
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1324	1324	1324	1324	1324	
5°	1324	1321	1309	1319	1317	126
15°	1290	1288	1265	1242	1231	365
25°	1222	1206	1142	1111	1103	564
35°	1103	1075	1000	964	949	691
45°	936	909	829	755	658	722
55°	732	715	636	509	463	656
65°	522	503	429	345	332	516
75°	297	282	240	208	208	314
85°	86	70	52	44	44	90
90°	4	13	21	27	29	6
95°	15	32	44	46	46	15
105°	44	46	65	76	80	46
115°	72	61	76	88	93	71
125°	97	78	88	101	105	87
135°	116	105	97	107	112	90
145°	130	124	109	107	110	81
155°	137	135	128	122	120	63
165°	141	143	139	139	139	40
175°	143	145	145	147	147	14
180°	145	145	145	145	145	



TEST NUMBER: P520467

CATALOG NUMBER: 4WSLA-100-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1324.5	1324.5	1324.5	1324.5	1324.5
2.5°	1328.3	1324.5	1315.0	1324.5	1322.6
5°	1324.5	1320.7	1309.2	1318.8	1316.9
7.5°	1318.8	1315.0	1303.5	1315.0	1313.1
10°	1313.1	1309.2	1297.8	1305.4	1299.7
12.5°	1303.5	1299.7	1286.4	1276.9	1265.4
15°	1290.2	1288.3	1265.4	1242.5	1231.1
17.5°	1278.8	1273.0	1236.8	1210.2	1196.8
20°	1263.5	1254.0	1206.3	1175.8	1166.3
22.5°	1246.4	1231.1	1173.9	1145.4	1137.7
25°	1221.6	1206.3	1141.5	1111.1	1103.4
27.5°	1196.8	1177.8	1109.1	1078.7	1071.0
30°	1170.1	1143.4	1072.9	1044.4	1031.0
32.5°	1139.6	1113.0	1038.6	1006.2	991.0
35°	1103.4	1074.8	1000.5	964.3	949.1
37.5°	1069.1	1038.6	962.4	922.4	901.4
40°	1027.2	996.7	918.6	874.7	853.8
42.5°	983.4	954.8	876.6	823.3	771.8
45°	935.7	909.0	829.0	754.7	657.5
47.5°	886.2	863.3	785.2	684.2	590.8
50°	836.6	813.8	737.5	617.5	539.3
52.5°	787.1	768.0	684.2	562.2	497.4
55°	731.8	714.7	636.5	508.8	463.1
57.5°	682.3	665.1	581.3	465.0	426.9
60°	627.0	611.7	529.8	421.2	392.6
62.5°	575.5	558.4	478.3	383.1	362.1
65°	522.2	503.1	428.8	344.9	331.6
67.5°	466.9	447.9	381.1	310.6	303.0
70°	411.6	396.4	333.5	276.3	272.5
72.5°	354.5	337.3	285.9	243.9	243.9
75°	297.3	282.1	240.1	207.7	207.7
77.5°	238.2	230.6	192.5	169.6	171.5
80°	186.8	177.2	144.8	129.6	129.6
82.5°	137.2	125.8	97.2	85.8	89.6
85°	85.8	70.5	51.5	43.8	43.8
87.5°	26.7	21.0	15.2	17.2	17.2
90°	3.8	13.3	21.0	26.7	28.6
92.5°	9.5	24.8	30.5	36.2	38.1
95°	15.2	32.4	43.8	45.7	45.7
97.5°	21.0	36.2	53.4	61.0	61.0
100°	28.6	38.1	57.2	68.6	70.5
102.5°	36.2	41.9	61.0	72.4	76.2
105°	43.8	45.7	64.8	76.2	80.0



TEST NUMBER: P520467

CATALOG NUMBER: 4WSLA-100-L840-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.8	57.2	72.4	85.8	89.6
115°	72.4	61.0	76.2	87.7	93.4
117.5°	78.1	66.7	80.0	91.5	95.3
120°	83.9	70.5	81.9	95.3	99.1
122.5°	91.5	74.3	85.8	97.2	102.9
125°	97.2	78.1	87.7	101.0	104.8
127.5°	102.9	85.8	89.6	102.9	106.7
130°	106.7	93.4	91.5	104.8	108.6
132.5°	112.4	99.1	93.4	106.7	110.5
135°	116.3	104.8	97.2	106.7	112.4
137.5°	120.1	110.5	97.2	106.7	110.5
140°	123.9	116.3	99.1	106.7	110.5
142.5°	125.8	120.1	101.0	106.7	110.5
145°	129.6	123.9	108.6	106.7	110.5
147.5°	131.5	127.7	114.3	106.7	110.5
150°	133.4	131.5	120.1	108.6	108.6
152.5°	135.3	133.4	123.9	116.3	112.4
155°	137.2	135.3	127.7	122.0	120.1
157.5°	139.1	139.1	131.5	127.7	125.8
160°	139.1	141.0	135.3	131.5	129.6
162.5°	141.0	142.9	137.2	135.3	133.4
165°	141.0	142.9	139.1	139.1	139.1
167.5°	142.9	144.8	142.9	141.0	141.0
170°	142.9	144.8	142.9	142.9	142.9
172.5°	142.9	144.8	144.8	144.8	144.8
175°	142.9	144.8	144.8	146.7	146.7
177.5°	142.9	144.8	144.8	144.8	144.8
180°	144.8	144.8	144.8	144.8	144.8



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	51.5	49.5	66.7	80.0	83.9
110°	57.2	53.4	70.5	81.9	85.8



(END OF REPORT)