

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: P520464

Luminaire Tested: **4WSLA-100-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520464
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-L835-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

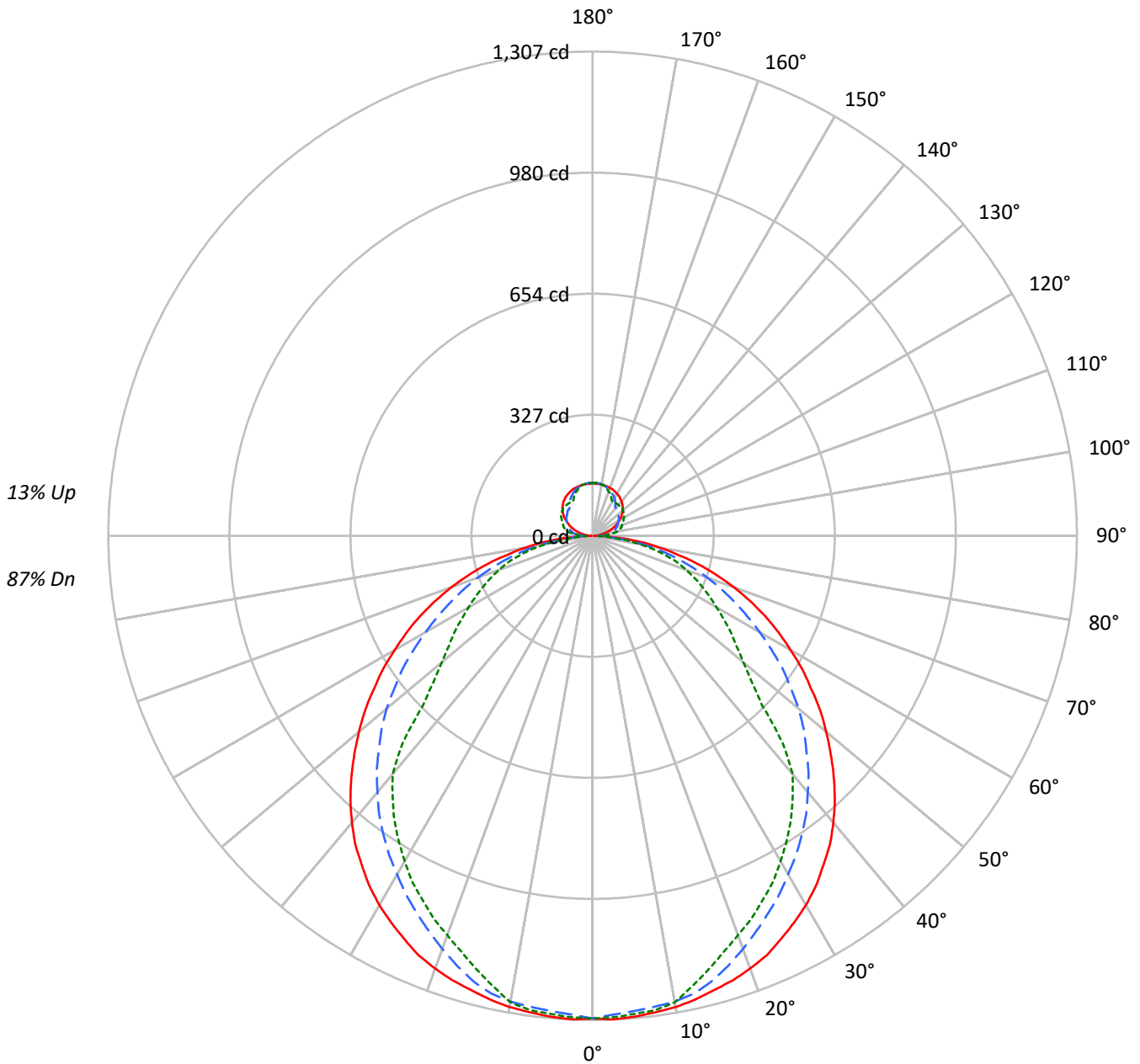
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7013	7013	7013
5°	7039	6958	6999
10°	7059	6977	6988
15°	7072	6936	6748
20°	7119	6797	6572
25°	7136	6669	6446
30°	7154	6559	6303
35°	7132	6467	6134
40°	7099	6348	5901
45°	7006	6207	4923
50°	6891	6074	4443
55°	6755	5876	4275
60°	6639	5610	4157
65°	6542	5372	4154
70°	6373	5163	4219
75°	6082	4912	4250
80°	5693	4417	3952
85°	5212	3125	2661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.0
10°-20°	350.7	8.6
20°-30°	524.0	12.9
30°-40°	625.5	15.4
40°-50°	625.6	15.4
50°-60°	541.4	13.4
60°-70°	415.5	10.2
70°-80°	254.6	6.3
80°-90°	71.7	1.8
90°-100°	40.5	1.0
100°-110°	64.3	1.6
110°-120°	75.2	1.9
120°-130°	81.2	2.0
130°-140°	80.0	2.0
140°-150°	70.8	1.7
150°-160°	58.2	1.4
160°-170°	39.0	1.0
170°-180°	13.6	0.3
0°-30°	998.0	24.6
0°-40°	1623.5	40.0
0°-60°	2790.5	68.8
0°-90°	3532.3	87.1
90°-120°	180.0	4.4
90°-150°	411.9	10.2
90°-180°	523.0	12.9
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1303	1303	1303	1303	1303	
5°	1303	1299	1288	1297	1296	124
15°	1269	1267	1245	1222	1211	359
25°	1202	1187	1123	1093	1086	554
35°	1086	1057	984	949	934	680
45°	920	894	816	742	647	710
55°	720	703	626	501	456	645
65°	514	495	422	339	326	507
75°	292	278	236	204	204	309
85°	84	69	51	43	43	88
90°	4	13	21	26	28	6
95°	15	32	43	45	45	15
105°	43	45	64	75	79	45
115°	71	60	75	86	92	70
125°	96	77	86	99	103	85
135°	114	103	96	105	111	88
145°	128	122	107	105	109	80
155°	135	133	126	120	118	62
165°	139	141	137	137	137	39
175°	141	142	142	144	144	13
180°	142	142	142	142	142	



TEST NUMBER: P520464

CATALOG NUMBER: 4WSLA-100-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1303.0	1303.0	1303.0	1303.0	1303.0
2.5°	1306.7	1303.0	1293.6	1303.0	1301.1
5°	1303.0	1299.2	1288.0	1297.3	1295.5
7.5°	1297.3	1293.6	1282.3	1293.6	1291.7
10°	1291.7	1288.0	1276.7	1284.2	1278.6
12.5°	1282.3	1278.6	1265.5	1256.1	1244.8
15°	1269.2	1267.3	1244.8	1222.4	1211.1
17.5°	1258.0	1252.3	1216.7	1190.5	1177.4
20°	1243.0	1233.6	1186.7	1156.7	1147.4
22.5°	1226.1	1211.1	1154.9	1126.7	1119.2
25°	1201.7	1186.7	1123.0	1093.0	1085.5
27.5°	1177.4	1158.6	1091.1	1061.1	1053.6
30°	1151.1	1124.9	1055.5	1027.4	1014.3
32.5°	1121.1	1094.9	1021.8	989.9	974.9
35°	1085.5	1057.4	984.3	948.6	933.6
37.5°	1051.7	1021.8	946.8	907.4	886.8
40°	1010.5	980.5	903.6	860.5	839.9
42.5°	967.4	939.3	862.4	809.9	759.3
45°	920.5	894.3	815.5	742.4	646.8
47.5°	871.8	849.3	772.4	673.0	581.2
50°	823.0	800.5	725.5	607.4	530.6
52.5°	774.3	755.5	673.0	553.1	489.3
55°	719.9	703.0	626.2	500.6	455.6
57.5°	671.2	654.3	571.8	457.4	419.9
60°	616.8	601.8	521.2	414.3	386.2
62.5°	566.2	549.3	470.6	376.8	356.2
65°	513.7	494.9	421.8	339.3	326.2
67.5°	459.3	440.6	375.0	305.6	298.1
70°	405.0	390.0	328.1	271.8	268.1
72.5°	348.7	331.8	281.2	240.0	240.0
75°	292.5	277.5	236.2	204.4	204.4
77.5°	234.3	226.8	189.4	166.9	168.7
80°	183.7	174.4	142.5	127.5	127.5
82.5°	135.0	123.7	95.6	84.4	88.1
85°	84.4	69.4	50.6	43.1	43.1
87.5°	26.2	20.6	15.0	16.9	16.9
90°	3.7	13.1	20.6	26.2	28.1
92.5°	9.4	24.4	30.0	35.6	37.5
95°	15.0	31.9	43.1	45.0	45.0
97.5°	20.6	35.6	52.5	60.0	60.0
100°	28.1	37.5	56.2	67.5	69.4
102.5°	35.6	41.2	60.0	71.2	75.0
105°	43.1	45.0	63.7	75.0	78.7



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CATALOG NUMBER: 4WSLA-100-L835-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.7	56.2	71.2	84.4	88.1
115°	71.2	60.0	75.0	86.2	91.9
117.5°	76.9	65.6	78.7	90.0	93.7
120°	82.5	69.4	80.6	93.7	97.5
122.5°	90.0	73.1	84.4	95.6	101.2
125°	95.6	76.9	86.2	99.4	103.1
127.5°	101.2	84.4	88.1	101.2	105.0
130°	105.0	91.9	90.0	103.1	106.9
132.5°	110.6	97.5	91.9	105.0	108.7
135°	114.4	103.1	95.6	105.0	110.6
137.5°	118.1	108.7	95.6	105.0	108.7
140°	121.9	114.4	97.5	105.0	108.7
142.5°	123.7	118.1	99.4	105.0	108.7
145°	127.5	121.9	106.9	105.0	108.7
147.5°	129.4	125.6	112.5	105.0	108.7
150°	131.2	129.4	118.1	106.9	106.9
152.5°	133.1	131.2	121.9	114.4	110.6
155°	135.0	133.1	125.6	120.0	118.1
157.5°	136.9	136.9	129.4	125.6	123.7
160°	136.9	138.7	133.1	129.4	127.5
162.5°	138.7	140.6	135.0	133.1	131.2
165°	138.7	140.6	136.9	136.9	136.9
167.5°	140.6	142.5	140.6	138.7	138.7
170°	140.6	142.5	140.6	140.6	140.6
172.5°	140.6	142.5	142.5	142.5	142.5
175°	140.6	142.5	142.5	144.4	144.4
177.5°	140.6	142.5	142.5	142.5	142.5
180°	142.5	142.5	142.5	142.5	142.5



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	50.6	48.7	65.6	78.7	82.5
110°	56.2	52.5	69.4	80.6	84.4



(END OF REPORT)