

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: P520461

Luminaire Tested: **4WSLA-100-L830-UPL8-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520461
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-L830-UPL8-UNV-U
Description: 4 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

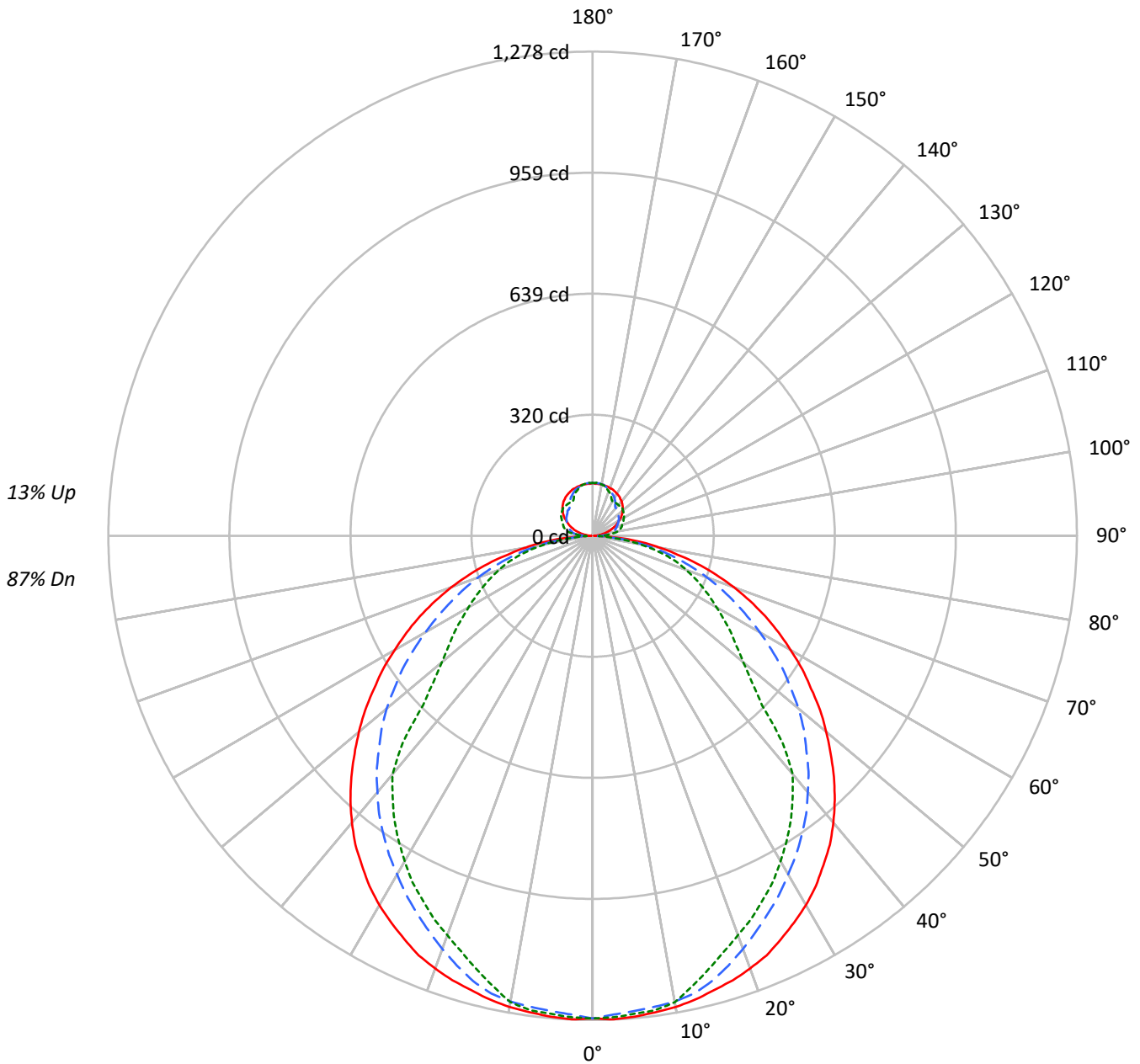
Lumens per Lamp: N/A
Luminaire Lumens: 3965.1 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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									
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°	6857	6857	6857
5°	6883	6804	6843
10°	6902	6822	6832
15°	6915	6782	6598
20°	6961	6646	6426
25°	6978	6521	6303
30°	6995	6414	6163
35°	6974	6323	5998
40°	6942	6208	5770
45°	6851	6069	4813
50°	6738	5940	4344
55°	6605	5745	4180
60°	6492	5485	4064
65°	6397	5253	4062
70°	6231	5048	4124
75°	5947	4803	4155
80°	5566	4317	3865
85°	5094	3057	2606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	3.0
10°-20°	342.9	8.6
20°-30°	512.4	12.9
30°-40°	611.6	15.4
40°-50°	611.7	15.4
50°-60°	529.4	13.4
60°-70°	406.3	10.2
70°-80°	249.0	6.3
80°-90°	70.1	1.8
90°-100°	39.6	1.0
100°-110°	62.9	1.6
110°-120°	73.5	1.9
120°-130°	79.4	2.0
130°-140°	78.2	2.0
140°-150°	69.2	1.7
150°-160°	56.9	1.4
160°-170°	38.1	1.0
170°-180°	13.3	0.3
0°-30°	975.9	24.6
0°-40°	1587.5	40.0
0°-60°	2728.6	68.8
0°-90°	3454.0	87.1
90°-120°	176.0	4.4
90°-150°	402.8	10.2
90°-180°	511.0	12.9
0°-180°	3965.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1274	1270	1259	1268	1267	121
15°	1241	1239	1217	1195	1184	351
25°	1175	1160	1098	1069	1061	542
35°	1061	1034	962	928	913	665
45°	900	874	797	726	632	694
55°	704	687	612	490	446	631
65°	502	484	412	332	319	496
75°	286	271	231	200	200	302
85°	82	68	50	42	42	86
90°	4	13	20	26	28	6
95°	15	31	42	44	44	14
105°	42	44	62	73	77	44
115°	70	59	73	84	90	68
125°	94	75	84	97	101	83
135°	112	101	94	103	108	86
145°	125	119	104	103	106	78
155°	132	130	123	117	116	61
165°	136	138	134	134	134	39
175°	138	139	139	141	141	13
180°	139	139	139	139	139	



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CATALOG NUMBER: 4WSLA-100-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1274.0	1274.0	1274.0	1274.0	1274.0
2.5°	1277.7	1274.0	1264.9	1274.0	1272.2
5°	1274.0	1270.4	1259.4	1268.5	1266.7
7.5°	1268.5	1264.9	1253.9	1264.9	1263.0
10°	1263.0	1259.4	1248.4	1255.7	1250.2
12.5°	1253.9	1250.2	1237.4	1228.2	1217.2
15°	1241.1	1239.2	1217.2	1195.2	1184.2
17.5°	1230.1	1224.6	1189.7	1164.1	1151.2
20°	1215.4	1206.2	1160.4	1131.1	1121.9
22.5°	1198.9	1184.2	1129.2	1101.7	1094.4
25°	1175.1	1160.4	1098.1	1068.7	1061.4
27.5°	1151.2	1132.9	1066.9	1037.6	1030.2
30°	1125.6	1099.9	1032.1	1004.6	991.7
32.5°	1096.2	1070.6	999.1	967.9	953.2
35°	1061.4	1033.9	962.4	927.6	912.9
37.5°	1028.4	999.1	925.7	887.3	867.1
40°	988.1	958.7	883.6	841.4	821.3
42.5°	945.9	918.4	843.3	791.9	742.4
45°	900.1	874.4	797.4	725.9	632.4
47.5°	852.4	830.4	755.3	658.1	568.3
50°	804.8	782.8	709.4	593.9	518.8
52.5°	757.1	738.8	658.1	540.8	478.5
55°	703.9	687.4	612.3	489.5	445.5
57.5°	656.3	639.8	559.1	447.3	410.6
60°	603.1	588.4	509.6	405.1	377.6
62.5°	553.6	537.1	460.1	368.5	348.3
65°	502.3	484.0	412.5	331.8	319.0
67.5°	449.1	430.8	366.6	298.8	291.5
70°	396.0	381.3	320.8	265.8	262.1
72.5°	341.0	324.5	275.0	234.6	234.6
75°	286.0	271.3	231.0	199.8	199.8
77.5°	229.1	221.8	185.1	163.2	165.0
80°	179.6	170.5	139.3	124.7	124.7
82.5°	132.0	121.0	93.5	82.5	86.2
85°	82.5	67.8	49.5	42.2	42.2
87.5°	25.7	20.2	14.7	16.5	16.5
90°	3.7	12.8	20.2	25.7	27.5
92.5°	9.2	23.8	29.3	34.8	36.7
95°	14.7	31.2	42.2	44.0	44.0
97.5°	20.2	34.8	51.3	58.7	58.7
100°	27.5	36.7	55.0	66.0	67.8
102.5°	34.8	40.3	58.7	69.7	73.3
105°	42.2	44.0	62.3	73.3	77.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	62.3	55.0	69.7	82.5	86.2
115°	69.7	58.7	73.3	84.3	89.8
117.5°	75.2	64.2	77.0	88.0	91.7
120°	80.7	67.8	78.8	91.7	95.3
122.5°	88.0	71.5	82.5	93.5	99.0
125°	93.5	75.2	84.3	97.2	100.8
127.5°	99.0	82.5	86.2	99.0	102.7
130°	102.7	89.8	88.0	100.8	104.5
132.5°	108.2	95.3	89.8	102.7	106.3
135°	111.8	100.8	93.5	102.7	108.2
137.5°	115.5	106.3	93.5	102.7	106.3
140°	119.2	111.8	95.3	102.7	106.3
142.5°	121.0	115.5	97.2	102.7	106.3
145°	124.7	119.2	104.5	102.7	106.3
147.5°	126.5	122.8	110.0	102.7	106.3
150°	128.3	126.5	115.5	104.5	104.5
152.5°	130.2	128.3	119.2	111.8	108.2
155°	132.0	130.2	122.8	117.3	115.5
157.5°	133.8	133.8	126.5	122.8	121.0
160°	133.8	135.7	130.2	126.5	124.7
162.5°	135.7	137.5	132.0	130.2	128.3
165°	135.7	137.5	133.8	133.8	133.8
167.5°	137.5	139.3	137.5	135.7	135.7
170°	137.5	139.3	137.5	137.5	137.5
172.5°	137.5	139.3	139.3	139.3	139.3
175°	137.5	139.3	139.3	141.2	141.2
177.5°	137.5	139.3	139.3	139.3	139.3
180°	139.3	139.3	139.3	139.3	139.3



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	49.5	47.7	64.2	77.0	80.7
110°	55.0	51.3	67.8	78.8	82.5



(END OF REPORT)