

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: P520749

Luminaire Tested: **8WSLA-50-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520749
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: 8WSLA-50-L830-UPL8-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

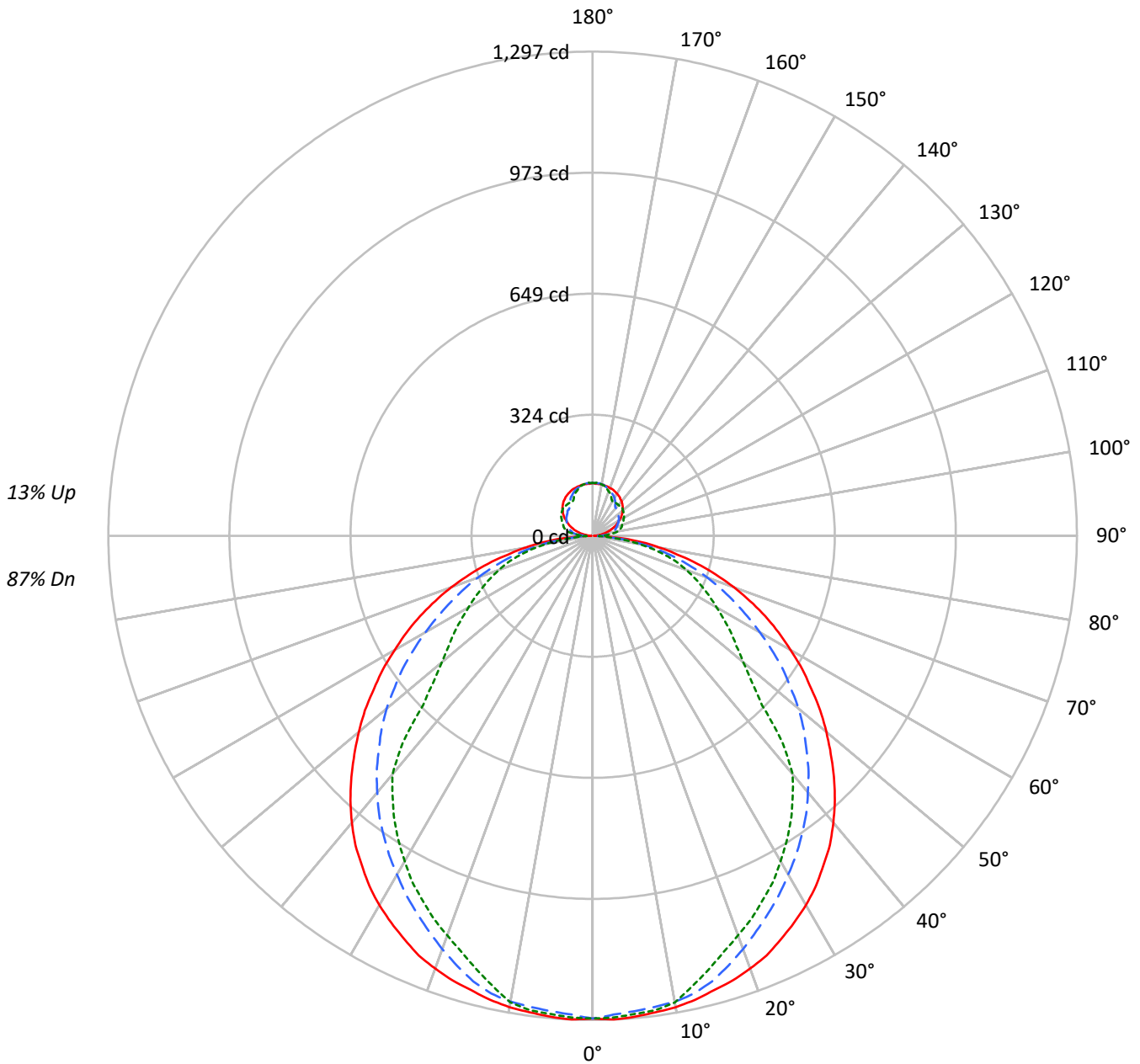
Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
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°	3480	3480	3480
5°	3494	3453	3474
10°	3504	3463	3468
15°	3510	3442	3349
20°	3533	3373	3261
25°	3542	3310	3199
30°	3550	3255	3128
35°	3540	3210	3044
40°	3523	3151	2929
45°	3477	3081	2443
50°	3420	3015	2205
55°	3353	2916	2122
60°	3295	2784	2063
65°	3247	2666	2062
70°	3163	2563	2094
75°	3018	2438	2109
80°	2827	2191	1960
85°	2584	1550	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.0
10°-20°	348.1	8.6
20°-30°	520.1	12.9
30°-40°	620.9	15.4
40°-50°	620.9	15.4
50°-60°	537.4	13.4
60°-70°	412.5	10.2
70°-80°	252.7	6.3
80°-90°	71.1	1.8
90°-100°	40.2	1.0
100°-110°	63.8	1.6
110°-120°	74.6	1.9
120°-130°	80.6	2.0
130°-140°	79.4	2.0
140°-150°	70.2	1.7
150°-160°	57.8	1.4
160°-170°	38.7	1.0
170°-180°	13.5	0.3
0°-30°	990.6	24.6
0°-40°	1611.5	40.0
0°-60°	2769.9	68.8
0°-90°	3506.2	87.1
90°-120°	178.7	4.4
90°-150°	408.8	10.2
90°-180°	519.0	12.9
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1293	1293	1293	1293	1293	
5°	1293	1290	1278	1288	1286	123
15°	1260	1258	1236	1213	1202	356
25°	1193	1178	1115	1085	1078	550
35°	1078	1050	977	942	927	675
45°	914	888	810	737	642	705
55°	715	698	622	497	452	641
65°	510	491	419	337	324	504
75°	290	275	234	203	203	306
85°	84	69	50	43	43	88
90°	4	13	20	26	28	6
95°	15	32	43	45	45	15
105°	43	45	63	74	78	45
115°	71	60	74	86	91	69
125°	95	76	86	99	102	85
135°	114	102	95	104	110	88
145°	126	121	106	104	108	79
155°	134	132	125	119	117	62
165°	138	140	136	136	136	39
175°	140	141	141	143	143	13
180°	141	141	141	141	141	



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CATALOG NUMBER: 8WSLA-50-L830-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.3	1293.3	1293.3	1293.3	1293.3
2.5°	1297.0	1293.3	1284.0	1293.3	1291.5
5°	1293.3	1289.6	1278.4	1287.7	1285.9
7.5°	1287.7	1284.0	1272.9	1284.0	1282.2
10°	1282.2	1278.4	1267.3	1274.7	1269.1
12.5°	1272.9	1269.1	1256.1	1246.8	1235.6
15°	1259.8	1258.0	1235.6	1213.3	1202.1
17.5°	1248.7	1243.1	1207.7	1181.7	1168.6
20°	1233.8	1224.5	1178.0	1148.2	1138.9
22.5°	1217.0	1202.1	1146.3	1118.4	1111.0
25°	1192.8	1178.0	1114.7	1084.9	1077.5
27.5°	1168.6	1150.0	1083.0	1053.3	1045.8
30°	1142.6	1116.5	1047.7	1019.8	1006.7
32.5°	1112.8	1086.8	1014.2	982.6	967.7
35°	1077.5	1049.5	977.0	941.6	926.7
37.5°	1044.0	1014.2	939.8	900.7	880.2
40°	1003.0	973.3	897.0	854.2	833.7
42.5°	960.2	932.3	856.0	803.9	753.7
45°	913.7	887.7	809.5	736.9	642.0
47.5°	865.3	843.0	766.7	668.1	576.9
50°	816.9	794.6	720.2	602.9	526.6
52.5°	768.6	749.9	668.1	549.0	485.7
55°	714.6	697.8	621.5	496.9	452.2
57.5°	666.2	649.5	567.6	454.1	416.8
60°	612.2	597.3	517.3	411.3	383.3
62.5°	562.0	545.2	467.1	374.0	353.6
65°	509.9	491.3	418.7	336.8	323.8
67.5°	455.9	437.3	372.2	303.3	295.9
70°	402.0	387.1	325.7	269.8	266.1
72.5°	346.1	329.4	279.1	238.2	238.2
75°	290.3	275.4	234.5	202.8	202.8
77.5°	232.6	225.2	188.0	165.6	167.5
80°	182.4	173.1	141.4	126.5	126.5
82.5°	134.0	122.8	94.9	83.7	87.5
85°	83.7	68.9	50.2	42.8	42.8
87.5°	26.1	20.5	14.9	16.7	16.7
90°	3.7	13.0	20.5	26.1	27.9
92.5°	9.3	24.2	29.8	35.4	37.2
95°	14.9	31.6	42.8	44.7	44.7
97.5°	20.5	35.4	52.1	59.5	59.5
100°	27.9	37.2	55.8	67.0	68.9
102.5°	35.4	40.9	59.5	70.7	74.4
105°	42.8	44.7	63.3	74.4	78.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.3	55.8	70.7	83.7	87.5
115°	70.7	59.5	74.4	85.6	91.2
117.5°	76.3	65.1	78.2	89.3	93.0
120°	81.9	68.9	80.0	93.0	96.8
122.5°	89.3	72.6	83.7	94.9	100.5
125°	94.9	76.3	85.6	98.6	102.3
127.5°	100.5	83.7	87.5	100.5	104.2
130°	104.2	91.2	89.3	102.3	106.1
132.5°	109.8	96.8	91.2	104.2	107.9
135°	113.5	102.3	94.9	104.2	109.8
137.5°	117.2	107.9	94.9	104.2	107.9
140°	121.0	113.5	96.8	104.2	107.9
142.5°	122.8	117.2	98.6	104.2	107.9
145°	126.5	121.0	106.1	104.2	107.9
147.5°	128.4	124.7	111.7	104.2	107.9
150°	130.3	128.4	117.2	106.1	106.1
152.5°	132.1	130.3	121.0	113.5	109.8
155°	134.0	132.1	124.7	119.1	117.2
157.5°	135.8	135.8	128.4	124.7	122.8
160°	135.8	137.7	132.1	128.4	126.5
162.5°	137.7	139.6	134.0	132.1	130.3
165°	137.7	139.6	135.8	135.8	135.8
167.5°	139.6	141.4	139.6	137.7	137.7
170°	139.6	141.4	139.6	139.6	139.6
172.5°	139.6	141.4	141.4	141.4	141.4
175°	139.6	141.4	141.4	143.3	143.3
177.5°	139.6	141.4	141.4	141.4	141.4
180°	141.4	141.4	141.4	141.4	141.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	50.2	48.4	65.1	78.2	81.9
110°	55.8	52.1	68.9	80.0	83.7



(END OF REPORT)