

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: P520748

Luminaire Tested: **8WSLA-50-L830-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-50-L830-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

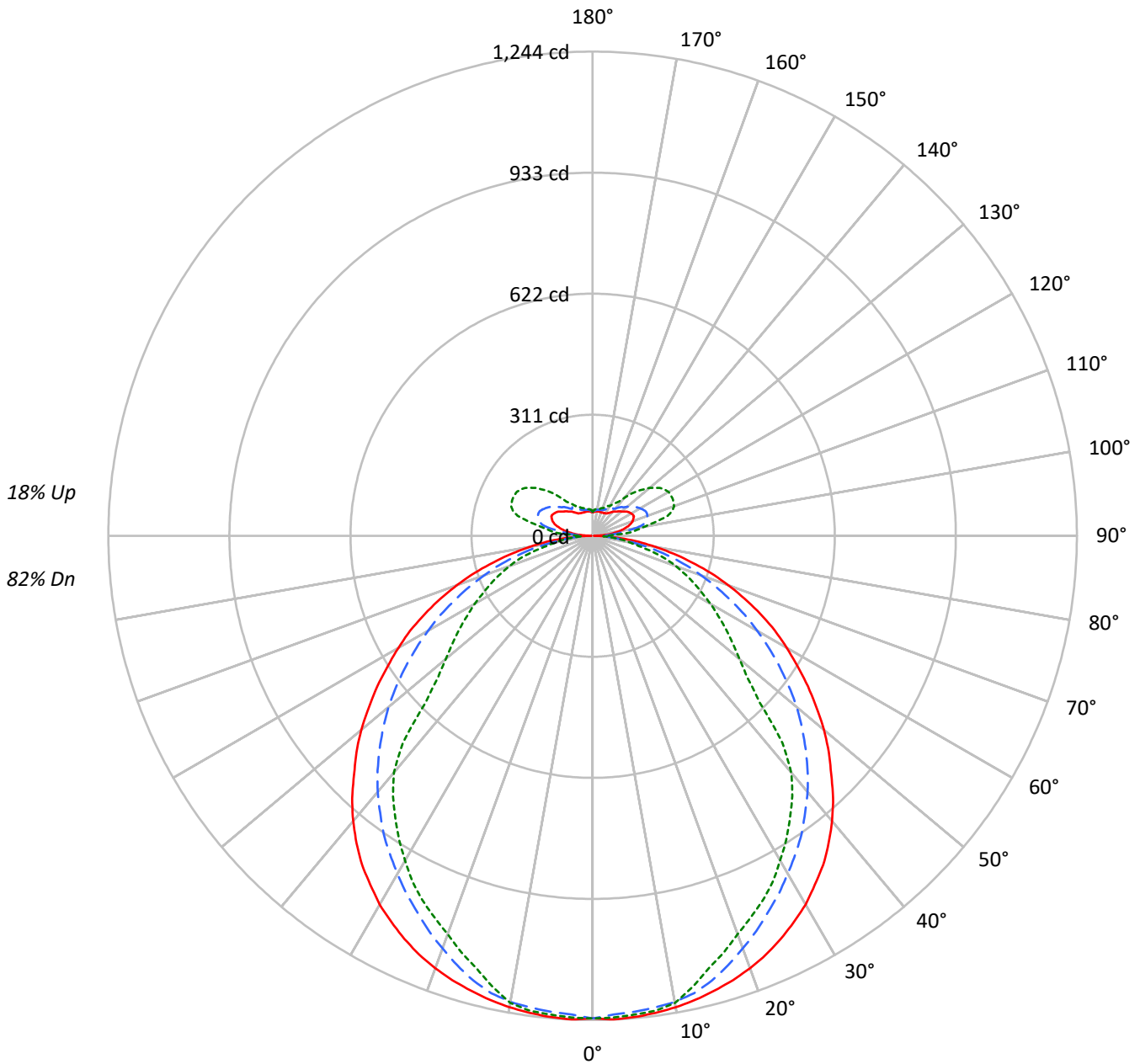
Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3337	3337	3337
5°	3353	3316	3336
10°	3361	3323	3330
15°	3370	3297	3206
20°	3385	3231	3119
25°	3394	3167	3070
30°	3400	3114	2993
35°	3392	3074	2904
40°	3362	3018	2788
45°	3298	2943	2312
50°	3249	2864	2058
55°	3169	2750	1959
60°	3100	2626	1882
65°	3027	2483	1826
70°	2909	2325	1791
75°	2746	2131	1648
80°	2514	1793	1461
85°	2251	1553	1476



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	2.9
10°-20°	333.8	8.3
20°-30°	498.2	12.4
30°-40°	593.6	14.8
40°-50°	590.5	14.7
50°-60°	506.1	12.6
60°-70°	381.1	9.5
70°-80°	220.7	5.5
80°-90°	66.3	1.7
90°-100°	71.2	1.8
100°-110°	146.3	3.6
110°-120°	154.7	3.9
120°-130°	129.0	3.2
130°-140°	90.1	2.2
140°-150°	56.1	1.4
150°-160°	34.8	0.9
160°-170°	19.6	0.5
170°-180°	6.3	0.2
0°-30°	949.6	23.6
0°-40°	1543.2	38.4
0°-60°	2639.8	65.7
0°-90°	3308.0	82.4
90°-120°	372.1	9.3
90°-150°	647.4	16.1
90°-180°	708.0	17.6
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1241	1238	1228	1236	1235	118
15°	1210	1209	1183	1163	1151	342
25°	1143	1127	1066	1040	1034	527
35°	1032	1005	936	899	884	645
45°	866	845	773	697	607	670
55°	675	665	586	465	418	604
65°	475	464	390	303	287	470
75°	264	255	205	164	158	280
85°	73	64	50	48	48	78
90°	4	18	30	38	40	7
95°	40	54	62	90	98	38
105°	94	98	141	189	200	98
115°	117	99	150	206	226	114
125°	108	96	130	190	214	96
135°	88	96	104	141	162	69
145°	72	83	90	97	103	46
155°	65	69	74	80	82	30
165°	64	67	69	72	72	18
175°	63	64	65	67	68	6
180°	62	62	62	62	62	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.0	1240.0	1240.0	1240.0	1240.0
2.5°	1243.8	1241.3	1231.2	1241.3	1238.8
5°	1241.3	1237.5	1227.5	1236.3	1235.0
7.5°	1236.3	1233.7	1222.4	1232.5	1231.2
10°	1230.0	1226.2	1216.1	1223.7	1218.6
12.5°	1221.2	1218.6	1203.6	1197.3	1187.2
15°	1209.8	1208.6	1183.4	1163.3	1150.7
17.5°	1197.3	1192.2	1157.0	1133.1	1121.8
20°	1182.2	1174.6	1128.1	1100.4	1089.1
22.5°	1164.6	1153.3	1099.2	1072.8	1061.4
25°	1143.2	1126.8	1066.5	1040.1	1033.8
27.5°	1119.3	1100.4	1036.3	1009.9	1002.3
30°	1094.1	1070.2	1002.3	977.2	963.3
32.5°	1062.7	1040.1	969.6	940.7	925.6
35°	1032.5	1004.9	935.7	899.2	884.1
37.5°	996.0	968.4	896.7	860.2	842.6
40°	957.1	929.4	859.0	816.2	793.6
42.5°	914.3	889.1	817.5	765.9	721.9
45°	866.5	845.1	773.4	696.7	607.4
47.5°	822.5	802.4	729.4	630.1	538.3
50°	776.0	757.1	684.2	567.2	491.7
52.5°	724.4	710.6	635.1	513.1	452.7
55°	675.4	665.3	586.1	465.3	417.5
57.5°	623.8	613.7	537.0	420.1	382.3
60°	576.0	565.9	488.0	379.8	349.6
62.5°	528.2	514.4	440.2	340.8	315.7
65°	475.4	464.1	389.9	303.1	286.7
67.5°	422.6	412.5	343.3	267.9	256.6
70°	369.7	360.9	295.5	233.9	227.6
72.5°	318.2	306.9	252.8	200.0	197.4
75°	264.1	255.3	205.0	163.5	158.5
77.5°	212.5	205.0	161.0	124.5	120.7
80°	162.2	154.7	115.7	90.5	94.3
82.5°	119.5	109.4	78.0	70.4	74.2
85°	72.9	64.1	50.3	47.8	47.8
87.5°	25.2	23.9	22.6	26.4	27.7
90°	3.8	17.6	30.2	37.7	40.2
92.5°	21.4	31.4	41.5	49.0	51.6
95°	40.2	54.1	61.6	90.5	98.1
97.5°	55.3	71.7	80.5	106.9	114.4
100°	70.4	85.5	113.2	127.0	135.8
102.5°	83.0	94.3	133.3	161.0	166.0
105°	94.3	98.1	140.9	188.6	200.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.2	100.6	150.9	205.0	225.1
115°	117.0	99.4	149.7	206.3	226.4
117.5°	117.0	99.4	145.9	206.3	226.4
120°	114.4	100.6	140.9	203.7	225.1
122.5°	111.9	98.1	135.8	198.7	220.1
125°	108.2	95.6	129.5	189.9	213.8
127.5°	101.9	98.1	123.2	178.6	202.5
130°	96.8	99.4	115.7	167.3	191.2
132.5°	93.1	96.8	108.2	154.7	176.1
135°	88.0	95.6	104.4	140.9	162.2
137.5°	84.3	91.8	98.1	128.3	145.9
140°	80.5	89.3	91.8	111.9	127.0
142.5°	75.5	85.5	86.8	104.4	110.7
145°	71.7	83.0	90.5	96.8	103.1
147.5°	67.9	78.0	88.0	89.3	95.6
150°	66.7	72.9	84.3	85.5	88.0
152.5°	65.4	70.4	78.0	85.5	86.8
155°	65.4	69.2	74.2	80.5	81.7
157.5°	64.1	69.2	71.7	76.7	78.0
160°	64.1	67.9	70.4	74.2	75.5
162.5°	64.1	67.9	69.2	72.9	74.2
165°	64.1	66.7	69.2	71.7	71.7
167.5°	64.1	66.7	67.9	70.4	70.4
170°	64.1	65.4	67.9	69.2	69.2
172.5°	62.9	65.4	66.7	69.2	69.2
175°	62.9	64.1	65.4	66.7	67.9
177.5°	60.4	64.1	65.4	66.7	65.4
180°	61.6	61.6	61.6	61.6	61.6



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	103.1	99.4	145.9	198.7	215.1
110°	109.4	100.6	149.7	202.5	222.6



(END OF REPORT)