

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: P234558

Luminaire Tested: **CTA-F-0100-50L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-50L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10304.5 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

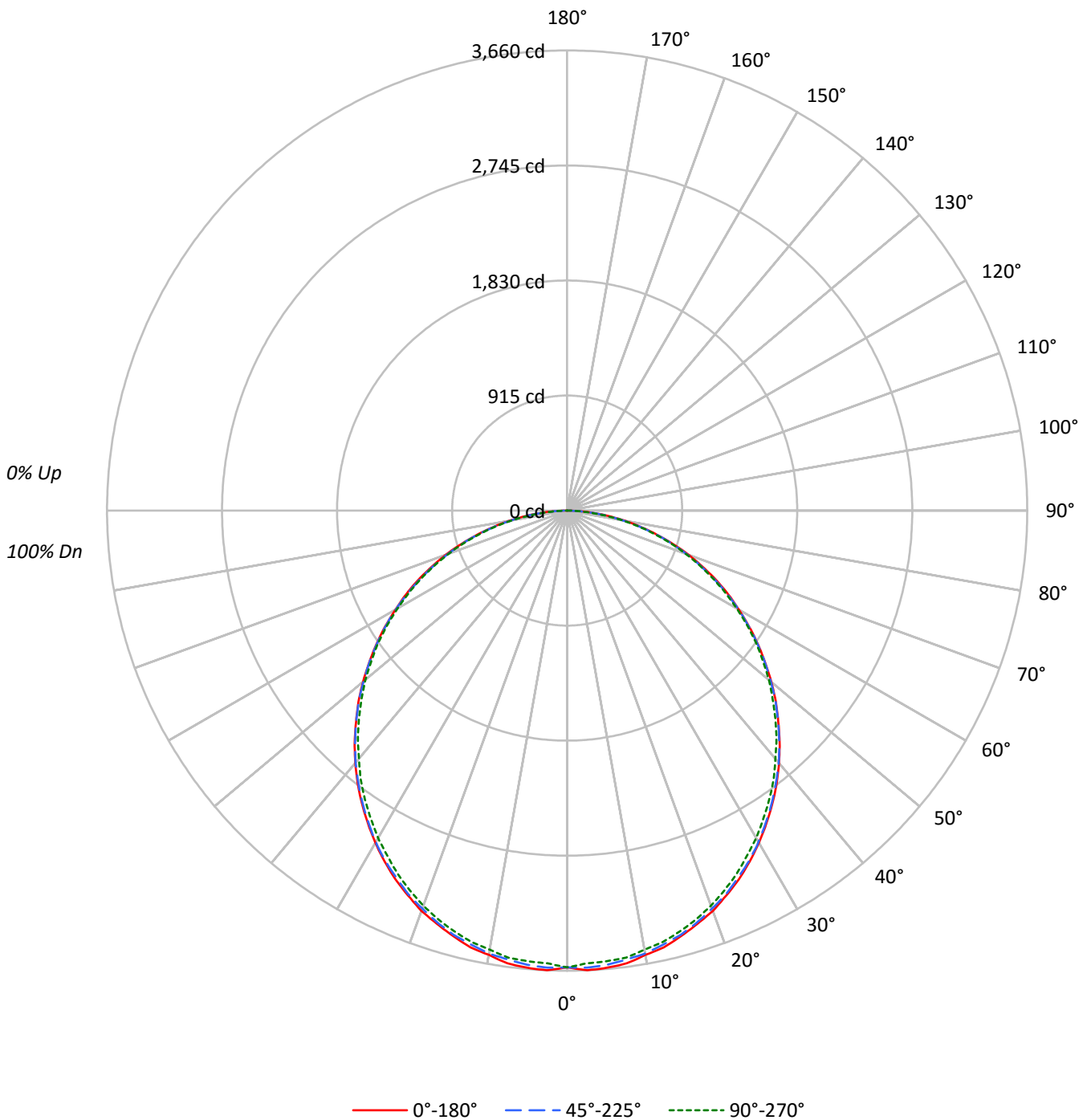
Input Watts (W): 111.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11730	11730	11730
5°	11831	11756	11662
10°	11766	11728	11627
15°	11713	11674	11584
20°	11643	11577	11491
25°	11524	11469	11360
30°	11379	11350	11214
35°	11219	11189	11052
40°	11048	11032	10862
45°	10845	10836	10696
50°	10645	10617	10520
55°	10425	10393	10328
60°	10183	10159	10059
65°	10006	9859	9786
70°	9695	9531	9441
75°	9237	9141	8972
80°	8619	8438	8189
85°	7550	7054	6698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.4	3.3
10°-20°	980.9	9.5
20°-30°	1476.7	14.3
30°-40°	1765.8	17.1
40°-50°	1821.1	17.7
50°-60°	1646.7	16.0
60°-70°	1278.3	12.4
70°-80°	770.7	7.5
80°-90°	220.9	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2801.0	27.2
0°-40°	4566.8	44.3
0°-60°	8034.6	78.0
0°-90°	10304.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10304.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3633	3633	3633	3633	3633	
5°	3650	3600	3627	3610	3598	347
15°	3504	3458	3492	3479	3465	989
25°	3235	3192	3219	3192	3188	1490
35°	2846	2815	2838	2810	2804	1780
45°	2375	2365	2373	2348	2342	1834
55°	1852	1852	1846	1833	1835	1655
65°	1310	1298	1290	1286	1281	1293
75°	740	736	733	725	719	783
85°	204	204	190	181	181	233
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3632.7	3632.7	3632.7	3632.7	3632.7
2.5°	3659.6	3609.6	3638.5	3626.9	3603.8
5°	3650.0	3600.0	3626.9	3609.6	3598.1
7.5°	3632.7	3575.0	3601.9	3592.3	3586.5
10°	3588.5	3546.2	3576.9	3557.7	3546.2
12.5°	3557.7	3501.9	3534.6	3521.2	3513.5
15°	3503.8	3457.7	3492.3	3478.8	3465.4
17.5°	3446.2	3401.9	3434.6	3421.2	3409.6
20°	3388.5	3340.4	3369.2	3353.8	3344.2
22.5°	3311.5	3269.2	3301.9	3275.0	3269.2
25°	3234.6	3192.3	3219.2	3192.3	3188.5
27.5°	3146.2	3109.6	3138.5	3111.5	3096.2
30°	3051.9	3017.3	3044.2	3011.5	3007.7
32.5°	2950.0	2921.2	2942.3	2919.2	2905.8
35°	2846.2	2815.4	2838.5	2809.6	2803.8
37.5°	2736.5	2709.6	2728.8	2701.9	2696.2
40°	2621.2	2598.1	2617.3	2586.5	2576.9
42.5°	2501.9	2484.6	2496.2	2467.3	2463.5
45°	2375.0	2365.4	2373.1	2348.1	2342.3
47.5°	2251.9	2238.5	2248.1	2219.2	2217.3
50°	2119.2	2113.5	2113.5	2094.2	2094.2
52.5°	1984.6	1980.8	1982.7	1961.5	1961.5
55°	1851.9	1851.9	1846.2	1832.7	1834.6
57.5°	1715.4	1711.5	1711.5	1696.2	1696.2
60°	1576.9	1576.9	1573.1	1559.6	1557.7
62.5°	1446.2	1440.4	1432.7	1423.1	1421.2
65°	1309.6	1298.1	1290.4	1286.5	1280.8
67.5°	1165.4	1157.7	1148.1	1144.2	1142.3
70°	1026.9	1015.4	1009.6	1001.9	1000.0
72.5°	882.7	875.0	869.2	863.5	861.5
75°	740.4	736.5	732.7	725.0	719.2
77.5°	600.0	596.2	588.5	584.6	578.8
80°	463.5	459.6	453.8	448.1	440.4
82.5°	330.8	328.8	319.2	311.5	303.8
85°	203.8	203.8	190.4	180.8	180.8
87.5°	90.4	84.6	73.1	63.5	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)