

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: P234561

Luminaire Tested: **CTA-F-0100-50L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234561
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-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15456.8 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: 12' x H: 0')
CIE Type: Direct

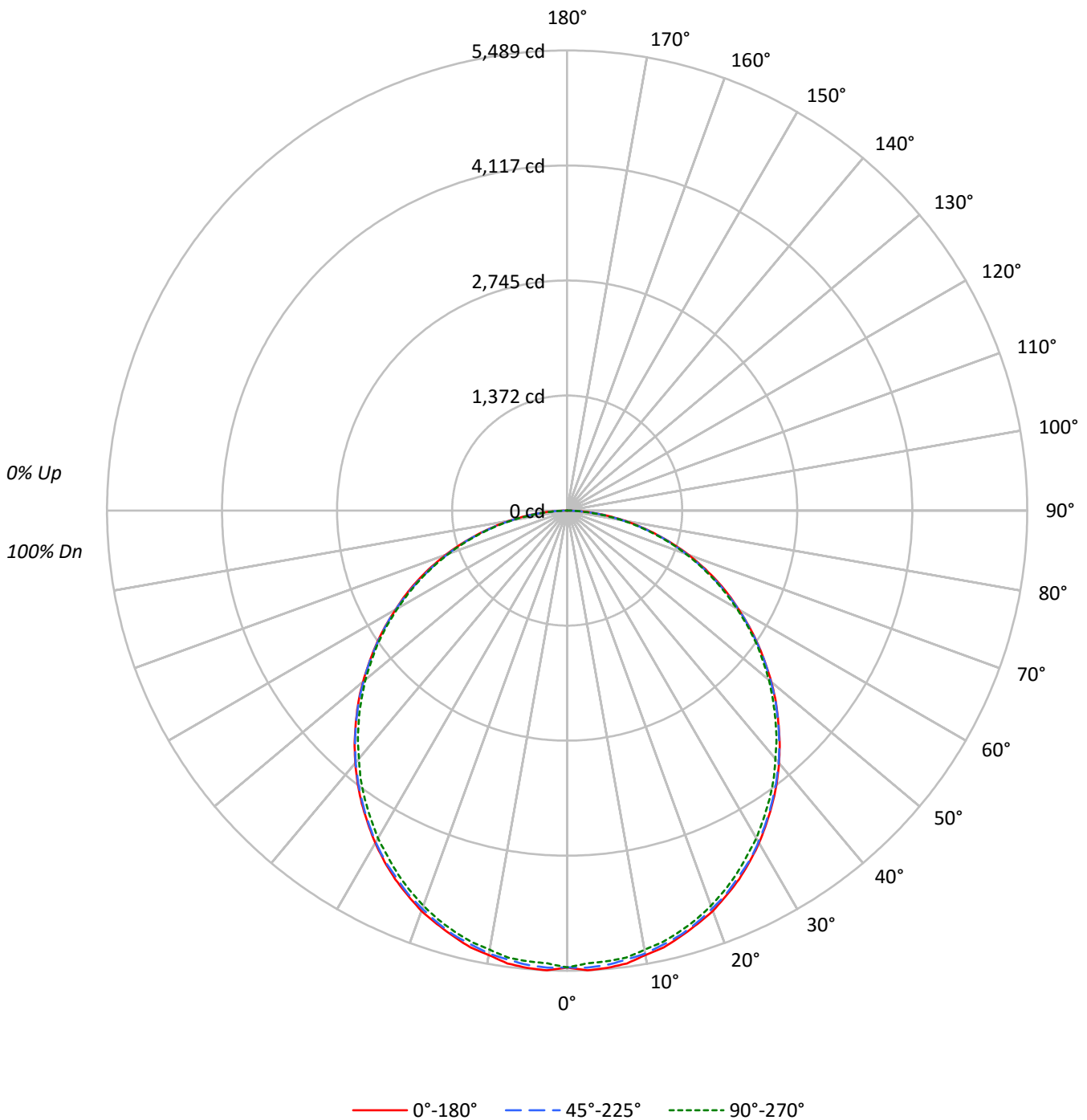
Input Watts (W): 167.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10184	10159	10059
65°	10006	9859	9786
70°	9695	9531	9441
75°	9237	9140	8972
80°	8618	8439	8189
85°	7553	7054	6698



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.2	3.3
10°-20°	1471.3	9.5
20°-30°	2215.0	14.3
30°-40°	2648.7	17.1
40°-50°	2731.6	17.7
50°-60°	2470.0	16.0
60°-70°	1917.5	12.4
70°-80°	1156.1	7.5
80°-90°	331.3	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°	4201.5	27.2
0°-40°	6850.2	44.3
0°-60°	12051.8	78.0
0°-90°	15456.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15456.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5449	5449	5449	5449	5449	
5°	5475	5400	5440	5414	5397	520
15°	5256	5186	5238	5218	5198	1483
25°	4852	4788	4829	4788	4783	2234
35°	4269	4223	4258	4214	4206	2670
45°	3562	3548	3560	3522	3514	2751
55°	2778	2778	2769	2749	2752	2483
65°	1964	1947	1936	1930	1921	1939
75°	1111	1105	1099	1088	1079	1174
85°	306	306	286	271	271	350
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5449.0	5449.0	5449.0	5449.0	5449.0
2.5°	5489.4	5414.4	5457.7	5440.4	5405.8
5°	5475.0	5400.0	5440.4	5414.4	5397.1
7.5°	5449.0	5362.5	5402.9	5388.5	5379.8
10°	5382.7	5319.2	5365.4	5336.5	5319.2
12.5°	5336.5	5252.9	5301.9	5281.7	5270.2
15°	5255.8	5186.5	5238.5	5218.3	5198.1
17.5°	5169.2	5102.9	5151.9	5131.7	5114.4
20°	5082.7	5010.6	5053.8	5030.8	5016.3
22.5°	4967.3	4903.8	4952.9	4912.5	4903.8
25°	4851.9	4788.5	4828.8	4788.5	4782.7
27.5°	4719.2	4664.4	4707.7	4667.3	4644.2
30°	4577.9	4526.0	4566.3	4517.3	4511.5
32.5°	4425.0	4381.7	4413.5	4378.8	4358.7
35°	4269.2	4223.1	4257.7	4214.4	4205.8
37.5°	4104.8	4064.4	4093.3	4052.9	4044.2
40°	3931.7	3897.1	3926.0	3879.8	3865.4
42.5°	3752.9	3726.9	3744.2	3701.0	3695.2
45°	3562.5	3548.1	3559.6	3522.1	3513.5
47.5°	3377.9	3357.7	3372.1	3328.8	3326.0
50°	3178.8	3170.2	3170.2	3141.3	3141.3
52.5°	2976.9	2971.2	2974.0	2942.3	2942.3
55°	2777.9	2777.9	2769.2	2749.0	2751.9
57.5°	2573.1	2567.3	2567.3	2544.2	2544.2
60°	2365.4	2365.4	2359.6	2339.4	2336.5
62.5°	2169.2	2160.6	2149.0	2134.6	2131.7
65°	1964.4	1947.1	1935.6	1929.8	1921.2
67.5°	1748.1	1736.5	1722.1	1716.3	1713.5
70°	1540.4	1523.1	1514.4	1502.9	1500.0
72.5°	1324.0	1312.5	1303.8	1295.2	1292.3
75°	1110.6	1104.8	1099.0	1087.5	1078.8
77.5°	900.0	894.2	882.7	876.9	868.3
80°	695.2	689.4	680.8	672.1	660.6
82.5°	496.2	493.3	478.8	467.3	455.8
85°	305.8	305.8	285.6	271.2	271.2
87.5°	135.6	126.9	109.6	95.2	92.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)