

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: P234566

Luminaire Tested: **CTA-F-0100-60L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-19)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-60L830-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 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: 11613.2 lumens
Efficiency: N/A
Efficacy: 84.0 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

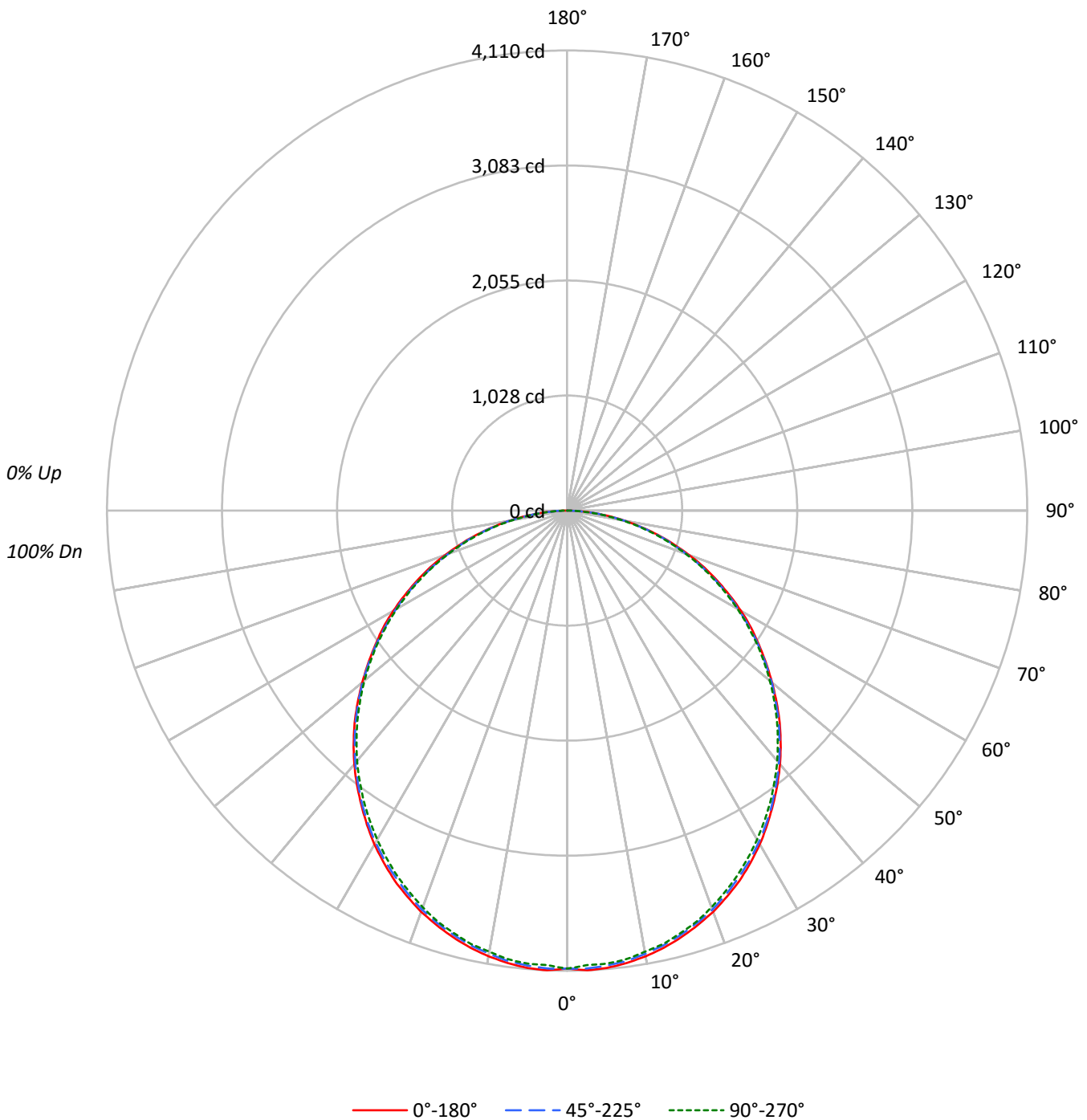
Input Watts (W): 138.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13208	13208	13208
5°	13289	13220	13164
10°	13254	13178	13115
15°	13185	13114	13063
20°	13104	13031	12958
25°	12990	12894	12812
30°	12834	12763	12648
35°	12637	12591	12485
40°	12467	12410	12305
45°	12259	12198	12101
50°	11998	11969	11873
55°	11768	11702	11627
60°	11574	11413	11351
65°	11284	11093	11020
70°	10930	10694	10639
75°	10436	10292	10100
80°	9727	9584	9297
85°	8551	8050	7195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.0	3.3
10°-20°	1105.3	9.5
20°-30°	1663.8	14.3
30°-40°	1990.8	17.1
40°-50°	2053.4	17.7
50°-60°	1856.4	16.0
60°-70°	1439.8	12.4
70°-80°	868.1	7.5
80°-90°	248.5	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°	3156.1	27.2
0°-40°	5146.9	44.3
0°-60°	9056.7	78.0
0°-90°	11613.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11613.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4090	4090	4090	4090	4090	
5°	4100	4060	4079	4075	4062	389
15°	3944	3900	3923	3923	3908	1113
25°	3646	3598	3619	3606	3596	1679
35°	3206	3175	3194	3173	3167	2007
45°	2685	2665	2671	2648	2650	2069
55°	2090	2085	2079	2064	2065	1873
65°	1477	1464	1452	1444	1442	1463
75°	836	829	825	814	810	884
85°	231	229	217	206	194	262
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4090.4	4090.4	4090.4	4090.4	4090.4
2.5°	4109.6	4073.1	4094.2	4088.5	4063.5
5°	4100.0	4059.6	4078.8	4075.0	4061.5
7.5°	4075.0	4036.5	4057.7	4051.9	4042.3
10°	4042.3	3998.1	4019.2	4013.5	4000.0
12.5°	3998.1	3955.8	3976.9	3971.2	3965.4
15°	3944.2	3900.0	3923.1	3923.1	3907.7
17.5°	3880.8	3840.4	3861.5	3859.6	3848.1
20°	3813.5	3765.4	3792.3	3782.7	3771.2
22.5°	3730.8	3688.5	3709.6	3692.3	3686.5
25°	3646.2	3598.1	3619.2	3605.8	3596.2
27.5°	3546.2	3503.8	3525.0	3505.8	3498.1
30°	3442.3	3398.1	3423.1	3401.9	3392.3
32.5°	3326.9	3294.2	3311.5	3290.4	3280.8
35°	3205.8	3175.0	3194.2	3173.1	3167.3
37.5°	3084.6	3055.8	3069.2	3050.0	3044.2
40°	2957.7	2930.8	2944.2	2919.2	2919.2
42.5°	2823.1	2800.0	2807.7	2786.5	2784.6
45°	2684.6	2665.4	2671.2	2648.1	2650.0
47.5°	2538.5	2523.1	2526.9	2507.7	2505.8
50°	2388.5	2380.8	2382.7	2359.6	2363.5
52.5°	2240.4	2234.6	2230.8	2215.4	2213.5
55°	2090.4	2084.6	2078.8	2063.5	2065.4
57.5°	1950.0	1932.7	1923.1	1913.5	1911.5
60°	1792.3	1776.9	1767.3	1755.8	1757.7
62.5°	1634.6	1623.1	1613.5	1603.8	1600.0
65°	1476.9	1463.5	1451.9	1444.2	1442.3
67.5°	1325.0	1301.9	1292.3	1286.5	1284.6
70°	1157.7	1144.2	1132.7	1126.9	1126.9
72.5°	998.1	984.6	978.8	971.2	967.3
75°	836.5	828.8	825.0	813.5	809.6
77.5°	676.9	673.1	669.2	655.8	651.9
80°	523.1	519.2	515.4	500.0	500.0
82.5°	371.2	369.2	361.5	348.1	340.4
85°	230.8	228.8	217.3	205.8	194.2
87.5°	100.0	94.2	80.8	71.2	73.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)