

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: P234553

Luminaire Tested: **CTA-F-0100-40L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-40L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 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: 11584.6 lumens
Efficiency: N/A
Efficacy: 88.6 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

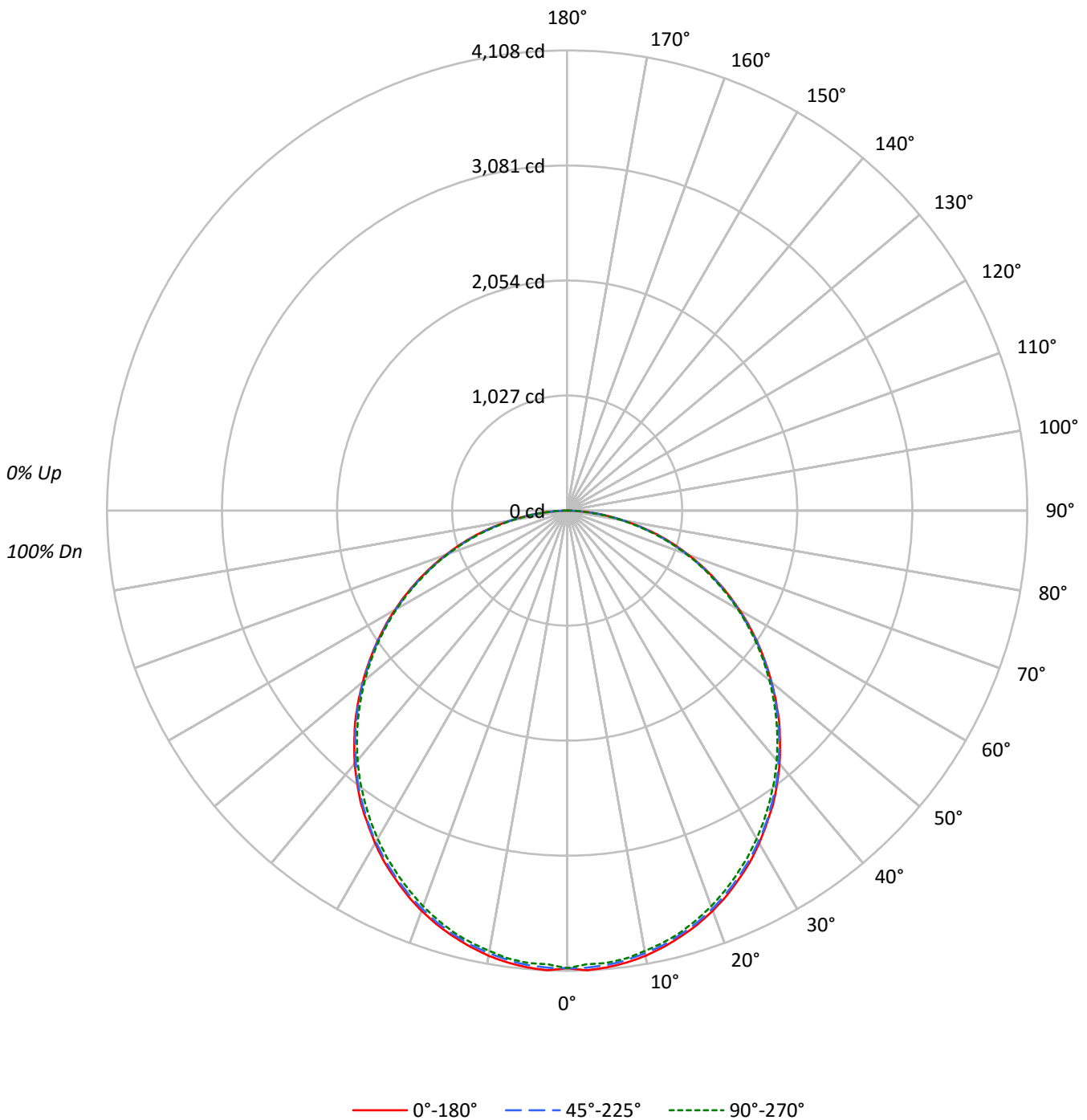
Input Watts (W): 130.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8793	8793	8793
5°	8845	8801	8758
10°	8821	8771	8726
15°	8768	8730	8691
20°	8709	8670	8610
25°	8619	8585	8509
30°	8525	8489	8411
35°	8422	8376	8293
40°	8292	8252	8179
45°	8149	8114	8044
50°	7979	7960	7892
55°	7827	7795	7740
60°	7650	7613	7563
65°	7464	7391	7346
70°	7226	7135	7099
75°	6957	6813	6742
80°	6330	6294	6115
85°	5557	5342	4846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.2	3.3
10°-20°	1103.1	9.5
20°-30°	1660.0	14.3
30°-40°	1986.0	17.1
40°-50°	2048.2	17.7
50°-60°	1851.5	16.0
60°-70°	1436.5	12.4
70°-80°	865.3	7.5
80°-90°	247.7	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°	3149.3	27.2
0°-40°	5135.3	44.3
0°-60°	9035.0	78.0
0°-90°	11584.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11584.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4085	4085	4085	4085	4085	
5°	4093	4056	4073	4062	4053	389
15°	3935	3897	3917	3909	3900	1110
25°	3629	3597	3614	3591	3583	1673
35°	3205	3170	3188	3162	3156	2002
45°	2677	2660	2665	2639	2642	2063
55°	2086	2080	2077	2060	2062	1863
65°	1465	1454	1451	1442	1442	1449
75°	836	822	819	816	811	879
85°	225	231	216	205	196	257
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4084.6	4084.6	4084.6	4084.6	4084.6
2.5°	4107.7	4070.2	4084.6	4078.9	4052.9
5°	4093.3	4055.8	4073.1	4061.5	4052.9
7.5°	4070.2	4032.7	4047.1	4038.5	4032.7
10°	4035.6	3995.2	4012.5	4003.9	3992.3
12.5°	3989.4	3951.9	3972.1	3957.7	3951.9
15°	3934.6	3897.1	3917.3	3908.7	3900.0
17.5°	3874.0	3836.5	3856.7	3848.1	3833.7
20°	3801.9	3764.4	3784.6	3767.3	3758.7
22.5°	3721.2	3683.7	3703.9	3683.7	3675.0
25°	3628.9	3597.1	3614.4	3591.4	3582.7
27.5°	3536.5	3499.0	3519.2	3496.2	3487.5
30°	3429.8	3395.2	3415.4	3386.5	3383.7
32.5°	3314.4	3285.6	3305.8	3279.8	3274.0
35°	3204.8	3170.2	3187.5	3161.5	3155.8
37.5°	3077.9	3049.0	3069.2	3037.5	3037.5
40°	2951.0	2927.9	2936.5	2907.7	2910.6
42.5°	2812.5	2795.2	2803.8	2777.9	2777.9
45°	2676.9	2659.6	2665.4	2639.4	2642.3
47.5°	2529.8	2518.3	2521.2	2498.1	2501.0
50°	2382.7	2374.0	2376.9	2353.8	2356.7
52.5°	2232.7	2226.9	2224.0	2203.8	2209.6
55°	2085.6	2079.8	2076.9	2059.6	2062.5
57.5°	1932.7	1926.9	1921.2	1906.7	1909.6
60°	1776.9	1774.0	1768.3	1756.7	1756.7
62.5°	1621.2	1615.4	1606.7	1601.0	1601.0
65°	1465.4	1453.8	1451.0	1442.3	1442.3
67.5°	1306.7	1301.0	1292.3	1289.4	1286.5
70°	1148.1	1139.4	1133.7	1130.8	1127.9
72.5°	995.2	986.5	977.9	972.1	969.2
75°	836.5	822.1	819.2	816.3	810.6
77.5°	672.1	666.3	660.6	654.8	646.2
80°	510.6	516.3	507.7	499.0	493.3
82.5°	366.3	372.1	357.7	349.0	343.3
85°	225.0	230.8	216.3	204.8	196.2
87.5°	98.1	101.0	80.8	72.1	63.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)