

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: P234545

Luminaire Tested: **CTA-F-0100-30L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

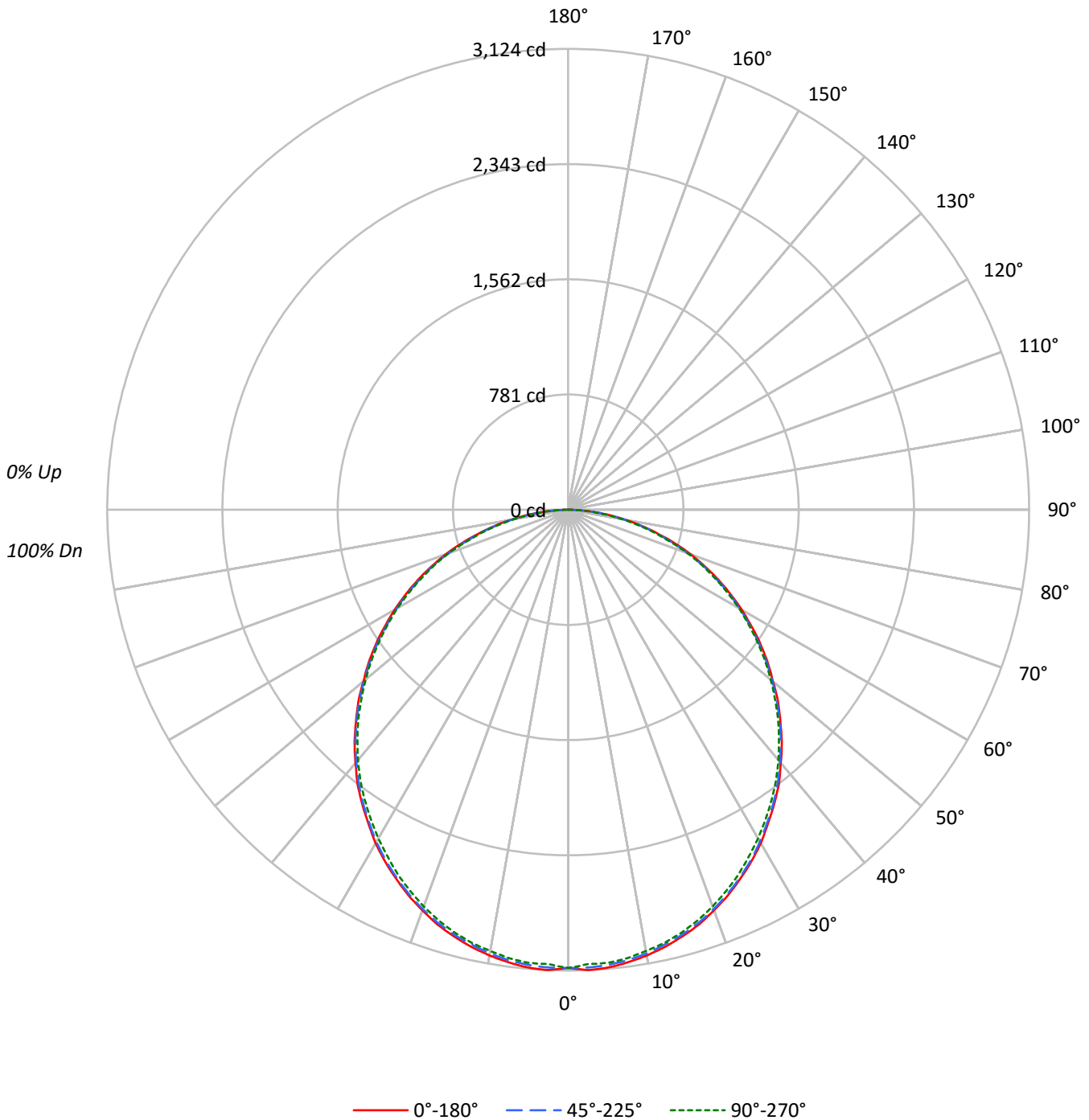
Lumens per Lamp: N/A
Luminaire Lumens: 8813.7 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 93.9
Input Voltage (V): 120
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				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°	6688	6688	6688
5°	6732	6694	6663
10°	6709	6677	6639
15°	6673	6647	6615
20°	6621	6601	6555
25°	6557	6536	6481
30°	6489	6460	6396
35°	6398	6375	6314
40°	6298	6274	6225
45°	6191	6173	6121
50°	6066	6047	5999
55°	5976	5922	5878
60°	5850	5787	5750
65°	5715	5627	5584
70°	5556	5428	5410
75°	5254	5158	5063
80°	4863	4791	4613
85°	4347	4060	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.8	3.3
10°-20°	839.5	9.5
20°-30°	1263.4	14.3
30°-40°	1511.0	17.1
40°-50°	1558.3	17.7
50°-60°	1409.0	16.0
60°-70°	1094.9	12.4
70°-80°	656.0	7.4
80°-90°	187.8	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°	2396.7	27.2
0°-40°	3907.7	44.3
0°-60°	6875.0	78.0
0°-90°	8813.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8813.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3107	3107	3107	3107	3107	
5°	3115	3086	3098	3089	3084	296
15°	2994	2965	2983	2974	2968	845
25°	2761	2738	2752	2732	2729	1272
35°	2435	2412	2426	2406	2403	1523
45°	2034	2025	2028	2008	2011	1570
55°	1592	1584	1578	1566	1566	1422
65°	1122	1111	1105	1096	1096	1110
75°	632	623	620	614	609	670
85°	176	173	164	156	150	199
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3106.7	3106.7	3106.7	3106.7	3106.7
2.5°	3124.0	3095.2	3106.7	3101.0	3083.6
5°	3115.4	3086.5	3098.1	3089.4	3083.6
7.5°	3095.2	3066.3	3080.8	3072.1	3066.3
10°	3069.2	3040.4	3054.8	3046.1	3037.5
12.5°	3034.6	3005.8	3020.2	3011.5	3008.6
15°	2994.2	2965.4	2982.7	2974.0	2968.3
17.5°	2948.1	2919.2	2936.5	2930.8	2919.2
20°	2890.4	2864.4	2881.7	2867.3	2861.5
22.5°	2829.8	2806.7	2821.1	2801.0	2798.1
25°	2760.6	2737.5	2751.9	2731.7	2728.8
27.5°	2688.5	2665.4	2679.8	2659.6	2651.0
30°	2610.6	2584.6	2599.0	2578.8	2573.1
32.5°	2521.1	2501.0	2512.5	2495.2	2489.4
35°	2434.6	2411.5	2426.0	2405.8	2402.9
37.5°	2345.2	2322.1	2333.7	2310.6	2313.5
40°	2241.3	2224.0	2232.7	2212.5	2215.4
42.5°	2143.3	2128.8	2134.6	2111.5	2114.4
45°	2033.7	2025.0	2027.9	2007.7	2010.6
47.5°	1929.8	1915.4	1918.3	1901.0	1901.0
50°	1811.5	1805.8	1805.8	1791.3	1791.3
52.5°	1704.8	1696.2	1693.3	1678.8	1681.7
55°	1592.3	1583.7	1577.9	1566.3	1566.3
57.5°	1474.0	1468.3	1459.6	1448.1	1451.0
60°	1358.7	1352.9	1344.2	1332.7	1335.6
62.5°	1240.4	1231.7	1226.0	1220.2	1214.4
65°	1122.1	1110.6	1104.8	1096.2	1096.2
67.5°	1001.0	992.3	986.5	980.8	980.8
70°	882.7	871.2	862.5	859.6	859.6
72.5°	758.7	747.1	738.5	738.5	726.9
75°	631.7	623.1	620.2	614.4	608.7
77.5°	513.5	504.8	501.9	496.2	490.4
80°	392.3	389.4	386.5	377.9	372.1
82.5°	282.7	279.8	274.0	265.4	259.6
85°	176.0	173.1	164.4	155.8	150.0
87.5°	75.0	72.1	60.6	51.9	49.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)