

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: P234601

Luminaire Tested: **CTA-F-5050-20L830-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-20L830-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6289.2 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

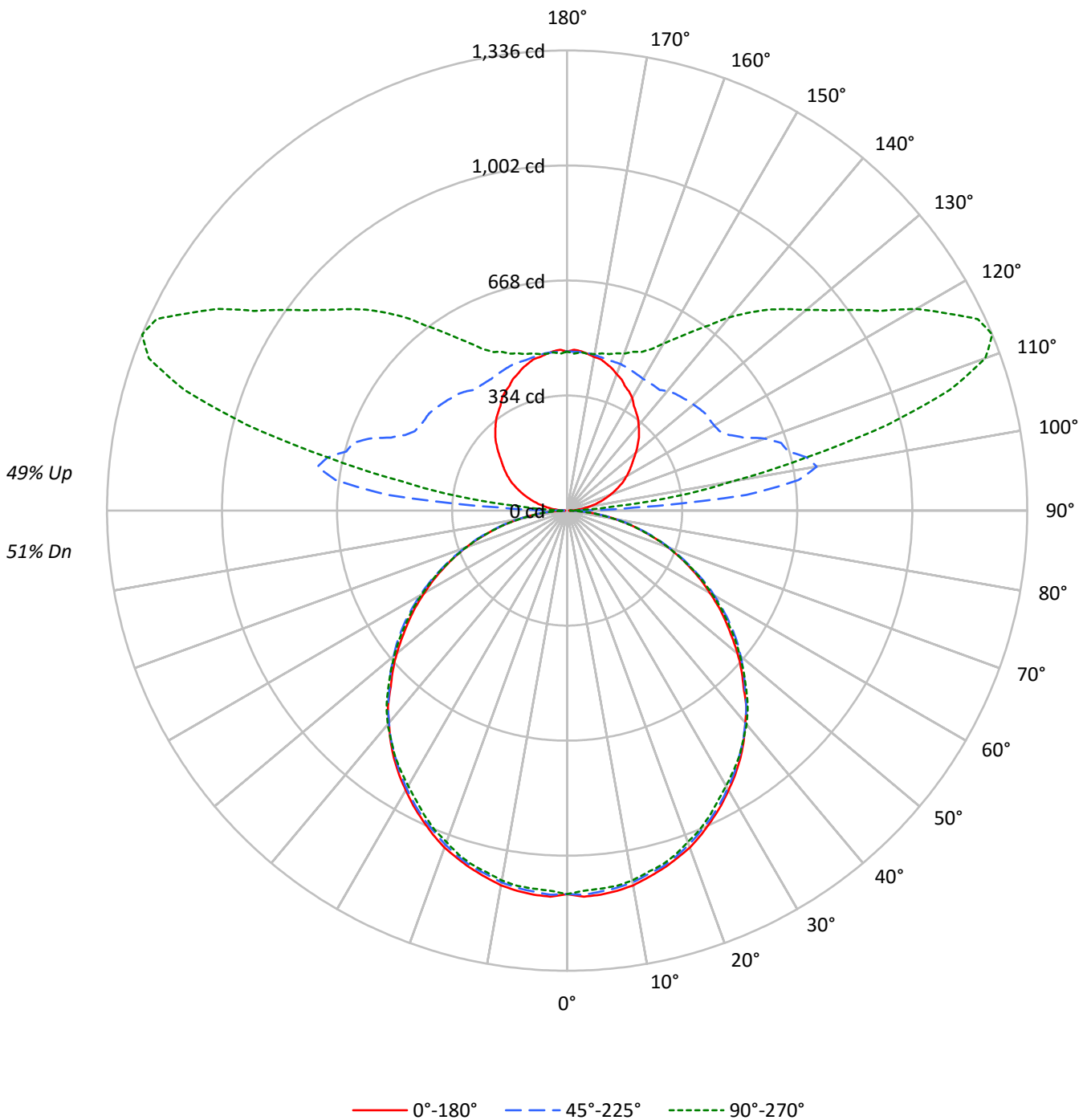
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	25	22	19	17
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2397	2397	2397
5°	2418	2400	2381
10°	2415	2396	2383
15°	2398	2385	2372
20°	2385	2366	2346
25°	2357	2343	2323
30°	2330	2316	2294
35°	2304	2289	2289
40°	2262	2262	2278
45°	2204	2222	2239
50°	2164	2203	2193
55°	2111	2176	2144
60°	2061	2124	2099
65°	2013	2057	2042
70°	1961	1979	1961
75°	1871	1895	1871
80°	1752	1788	1717
85°	1568	1568	1425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.7
10°-20°	301.2	4.8
20°-30°	453.5	7.2
30°-40°	544.5	8.7
40°-50°	563.9	9.0
50°-60°	510.9	8.1
60°-70°	396.8	6.3
70°-80°	240.4	3.8
80°-90°	71.8	1.1
90°-100°	245.5	3.9
100°-110°	633.3	10.1
110°-120°	643.9	10.2
120°-130°	504.6	8.0
130°-140°	397.5	6.3
140°-150°	294.8	4.7
150°-160°	208.6	3.3
160°-170°	128.7	2.0
170°-180°	43.9	0.7
0°-30°	860.2	13.7
0°-40°	1404.7	22.3
0°-60°	2479.5	39.4
0°-90°	3188.4	50.7
90°-120°	1522.7	24.2
90°-150°	2719.6	43.2
90°-180°	3101.0	49.3
0°-180°	6289.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1119	1108	1111	1108	1102	106
15°	1076	1064	1070	1067	1064	304
25°	992	984	986	981	978	458
35°	877	868	871	868	871	548
45°	724	721	730	736	736	561
55°	562	565	580	574	571	503
65°	395	401	404	401	401	392
75°	225	231	228	225	225	239
85°	64	64	64	61	58	67
90°	6	9	9	9	9	8
95°	32	95	522	231	141	33
105°	98	176	664	1099	964	104
115°	167	219	519	1128	1315	165
125°	228	265	490	862	1015	204
135°	294	317	467	707	825	226
145°	349	364	441	574	635	219
155°	398	410	447	488	508	184
165°	441	438	453	467	470	124
175°	464	459	462	459	462	44
180°	462	462	462	462	462	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1113.5	1113.5	1113.5	1113.5	1113.5
2.5°	1122.1	1113.5	1116.3	1113.5	1104.8
5°	1119.2	1107.7	1110.6	1107.7	1101.9
7.5°	1113.5	1101.9	1104.8	1101.9	1099.0
10°	1104.8	1093.3	1096.2	1093.3	1090.4
12.5°	1090.4	1078.8	1081.7	1078.8	1076.0
15°	1076.0	1064.4	1070.2	1067.3	1064.4
17.5°	1058.7	1050.0	1052.9	1050.0	1047.1
20°	1041.3	1029.8	1032.7	1029.8	1024.0
22.5°	1018.3	1009.6	1009.6	1006.7	1003.8
25°	992.3	983.7	986.5	980.8	977.9
27.5°	966.3	957.7	960.6	954.8	949.0
30°	937.5	928.8	931.7	926.0	923.1
32.5°	908.7	900.0	902.9	897.1	897.1
35°	876.9	868.3	871.2	868.3	871.2
37.5°	842.3	833.7	839.4	839.4	839.4
40°	804.8	799.0	804.8	807.7	810.6
42.5°	770.2	764.4	770.2	776.0	776.0
45°	724.0	721.2	729.8	735.6	735.6
47.5°	686.5	683.7	695.2	698.1	695.2
50°	646.2	646.2	657.7	657.7	654.8
52.5°	602.9	605.8	620.2	617.3	614.4
55°	562.5	565.4	579.8	574.0	571.2
57.5°	522.1	525.0	536.5	530.8	530.8
60°	478.8	484.6	493.3	487.5	487.5
62.5°	438.5	441.3	450.0	444.2	444.2
65°	395.2	401.0	403.8	401.0	401.0
67.5°	354.8	360.6	360.6	354.8	354.8
70°	311.5	317.3	314.4	311.5	311.5
72.5°	268.3	274.0	274.0	268.3	268.3
75°	225.0	230.8	227.9	225.0	225.0
77.5°	184.6	187.5	187.5	181.7	181.7
80°	141.3	144.2	144.2	141.3	138.5
82.5°	101.0	103.8	103.8	98.1	98.1
85°	63.5	63.5	63.5	60.6	57.7
87.5°	26.0	28.8	26.0	23.1	20.2
90°	5.8	8.7	8.7	8.7	8.7
92.5°	17.3	60.6	196.2	57.7	34.6
95°	31.7	95.2	522.1	230.8	141.3
97.5°	49.0	118.3	677.9	432.7	323.1
100°	63.5	150.0	735.6	643.3	487.5
102.5°	80.8	167.3	712.5	888.5	709.6
105°	98.1	176.0	663.5	1099.0	963.5
107.5°	115.4	181.7	651.9	1208.7	1165.4
110°	132.7	193.3	611.5	1231.7	1292.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.0	207.7	553.8	1202.9	1335.6
115°	167.3	219.2	519.2	1127.9	1315.4
117.5°	184.6	230.8	499.0	1041.3	1240.4
120°	199.0	245.2	493.3	969.2	1171.2
122.5°	213.5	256.7	490.4	905.8	1078.8
125°	227.9	265.4	490.4	862.5	1015.4
127.5°	242.3	276.9	484.6	825.0	954.8
130°	259.6	291.3	478.8	784.6	905.8
132.5°	276.9	305.8	473.1	744.2	865.4
135°	294.2	317.3	467.3	706.7	825.0
137.5°	308.7	328.8	461.5	675.0	778.8
140°	323.1	343.3	452.9	637.5	732.7
142.5°	337.5	351.9	441.3	602.9	677.9
145°	349.0	363.5	441.3	574.0	634.6
147.5°	360.6	377.9	441.3	542.3	594.2
150°	377.9	386.5	441.3	510.6	559.6
152.5°	389.4	398.1	444.2	499.0	527.9
155°	398.1	409.6	447.1	487.5	507.7
157.5°	412.5	418.3	450.0	481.7	499.0
160°	421.2	426.9	452.9	476.0	484.6
162.5°	432.7	432.7	452.9	473.1	478.8
165°	441.3	438.5	452.9	467.3	470.2
167.5°	450.0	444.2	455.8	461.5	467.3
170°	452.9	450.0	458.7	464.4	461.5
172.5°	458.7	455.8	461.5	461.5	458.7
175°	464.4	458.7	461.5	458.7	461.5
177.5°	467.3	461.5	461.5	458.7	455.8
180°	461.5	461.5	461.5	461.5	461.5

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