

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: P234620

Luminaire Tested: **CTA-F-5050-50L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-8D)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-50L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4857.6 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

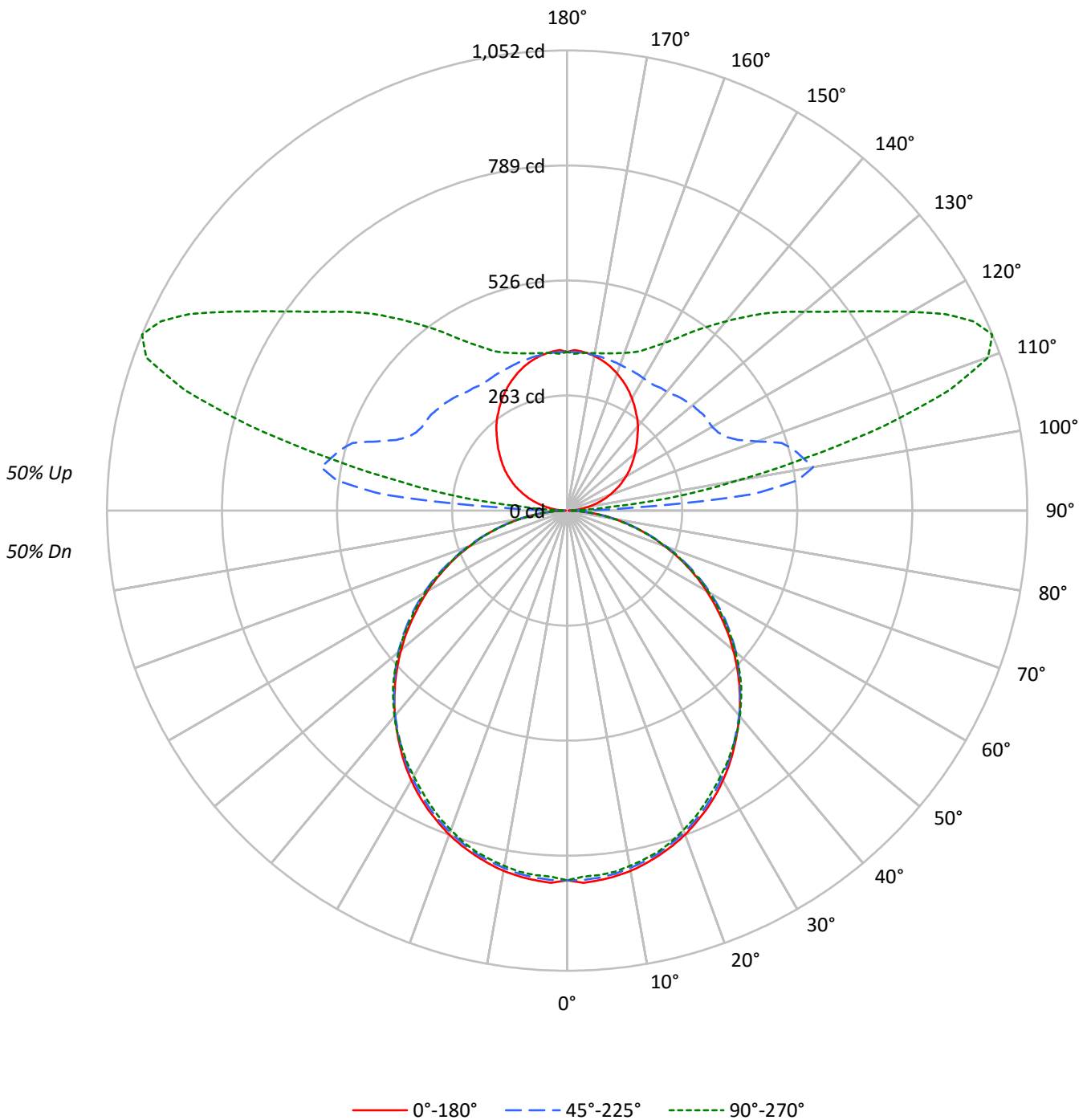
Input Watts (W): 41.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																			
1	98	93	89	85	90	86	83	79	73	70	68	60	59	57	49	48	47	42																			
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34																			
3	81	71	63	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29																			
4	74	63	55	48	68	58	51	45	49	44	40	41	37	34	34	31	28	25																			
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21																			
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	19																			
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16																			
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	24	21	25	21	18	21	18	15	13																			
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5458	5458	5458
5°	5498	5460	5423
10°	5485	5441	5410
15°	5451	5419	5393
20°	5419	5379	5339
25°	5371	5331	5282
30°	5313	5270	5227
35°	5238	5208	5200
40°	5163	5155	5179
45°	5076	5102	5137
50°	4975	5061	5042
55°	4860	4991	4937
60°	4757	4892	4830
65°	4642	4760	4673
70°	4465	4556	4503
75°	4319	4366	4272
80°	4076	4113	4005
85°	3631	3631	3423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.6
10°-20°	228.3	4.7
20°-30°	343.9	7.1
30°-40°	413.3	8.5
40°-50°	430.4	8.9
50°-60°	391.6	8.1
60°-70°	304.9	6.3
70°-80°	183.8	3.8
80°-90°	56.2	1.2
90°-100°	193.9	4.0
100°-110°	497.4	10.2
110°-120°	500.9	10.3
120°-130°	391.9	8.1
130°-140°	309.1	6.4
140°-150°	231.7	4.8
150°-160°	164.5	3.4
160°-170°	101.5	2.1
170°-180°	34.5	0.7
0°-30°	652.1	13.4
0°-40°	1065.4	21.9
0°-60°	1887.4	38.9
0°-90°	2432.4	50.1
90°-120°	1192.1	24.5
90°-150°	2124.8	43.7
90°-180°	2425.0	49.9
0°-180°	4857.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	848	840	842	839	836	81
15°	815	808	811	810	807	230
25°	754	746	748	744	741	347
35°	664	659	661	661	660	416
45°	556	553	559	562	562	429
55°	432	433	443	440	438	386
65°	304	309	312	309	306	300
75°	173	175	175	172	171	183
85°	49	51	49	47	46	53
90°	4	7	7	8	6	6
95°	23	77	422	179	112	25
105°	76	126	536	866	752	80
115°	130	169	399	877	1024	128
125°	179	208	381	664	793	160
135°	226	249	365	550	638	175
145°	274	288	349	445	499	172
155°	316	321	352	385	403	146
165°	348	347	358	367	372	98
175°	365	362	362	362	362	35
180°	362	362	362	362	362	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.2	845.2	845.2	845.2	845.2
2.5°	851.9	843.3	845.2	843.3	837.5
5°	848.1	840.4	842.3	839.4	836.5
7.5°	843.3	834.6	837.5	834.6	832.7
10°	836.5	827.9	829.8	827.9	825.0
12.5°	826.9	818.3	821.2	819.2	816.3
15°	815.4	807.7	810.6	809.6	806.7
17.5°	802.9	795.2	797.1	796.2	793.3
20°	788.5	779.8	782.7	779.8	776.9
22.5°	771.2	763.5	766.3	762.5	760.6
25°	753.8	746.2	748.1	744.2	741.3
27.5°	733.7	726.0	727.9	724.0	721.2
30°	712.5	704.8	706.7	701.9	701.0
32.5°	689.4	682.7	684.6	682.7	681.7
35°	664.4	658.7	660.6	660.6	659.6
37.5°	638.5	633.7	635.6	637.5	638.5
40°	612.5	607.7	611.5	614.4	614.4
42.5°	584.6	580.8	585.6	588.5	588.5
45°	555.8	552.9	558.7	561.5	562.5
47.5°	526.0	524.0	531.7	533.7	532.7
50°	495.2	494.2	503.8	503.8	501.9
52.5°	464.4	463.5	474.0	473.1	471.2
55°	431.7	432.7	443.3	440.4	438.5
57.5°	400.0	401.9	411.5	407.7	407.7
60°	368.3	371.2	378.8	375.0	374.0
62.5°	336.5	339.4	345.2	341.3	341.3
65°	303.8	308.7	311.5	308.7	305.8
67.5°	271.2	276.9	276.9	275.0	274.0
70°	236.5	243.3	241.3	239.4	238.5
72.5°	205.8	208.7	207.7	205.8	204.8
75°	173.1	175.0	175.0	172.1	171.2
77.5°	141.3	143.3	142.3	140.4	138.5
80°	109.6	111.5	110.6	108.7	107.7
82.5°	79.8	79.8	78.8	76.9	76.0
85°	49.0	51.0	49.0	47.1	46.2
87.5°	23.1	23.1	21.2	20.2	18.3
90°	3.8	6.7	6.7	7.7	5.8
92.5°	13.5	48.1	146.2	38.5	25.0
95°	23.1	76.9	422.1	178.8	111.5
97.5°	36.5	91.3	531.7	352.9	263.5
100°	50.0	115.4	571.2	519.2	395.2
102.5°	62.5	124.0	552.9	706.7	563.5
105°	76.0	126.0	536.5	866.3	751.9
107.5°	89.4	131.7	514.4	956.7	917.3
110°	102.9	145.2	461.5	977.9	1024.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.3	157.7	422.1	940.4	1051.9
115°	129.8	169.2	399.0	876.9	1024.0
117.5°	142.3	179.8	388.5	811.5	973.1
120°	154.8	189.4	382.7	751.9	907.7
122.5°	167.3	198.1	381.7	703.8	847.1
125°	178.8	207.7	380.8	664.4	793.3
127.5°	190.4	216.3	376.9	632.7	746.2
130°	201.9	226.0	374.0	605.8	706.7
132.5°	214.4	236.5	369.2	577.9	672.1
135°	226.0	249.0	365.4	550.0	637.5
137.5°	238.5	259.6	359.6	523.1	600.0
140°	251.9	269.2	354.8	495.2	564.4
142.5°	263.5	278.8	352.9	470.2	530.8
145°	274.0	287.5	349.0	445.2	499.0
147.5°	285.6	297.1	348.1	425.0	467.3
150°	296.2	304.8	349.0	408.7	441.3
152.5°	306.7	313.5	351.0	393.3	421.2
155°	316.3	321.2	351.9	384.6	402.9
157.5°	325.0	328.8	352.9	377.9	391.3
160°	333.7	335.6	354.8	374.0	383.7
162.5°	341.3	342.3	356.7	370.2	376.9
165°	348.1	347.1	357.7	367.3	372.1
167.5°	353.8	351.9	359.6	365.4	368.3
170°	358.7	355.8	360.6	363.5	365.4
172.5°	362.5	359.6	361.5	363.5	363.5
175°	365.4	361.5	362.5	362.5	361.5
177.5°	367.3	362.5	362.5	362.5	358.7
180°	362.5	362.5	362.5	362.5	362.5

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