

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: P234597

Luminaire Tested: **CTA-F-5050-20L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234597
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-5050-20L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2222.2 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

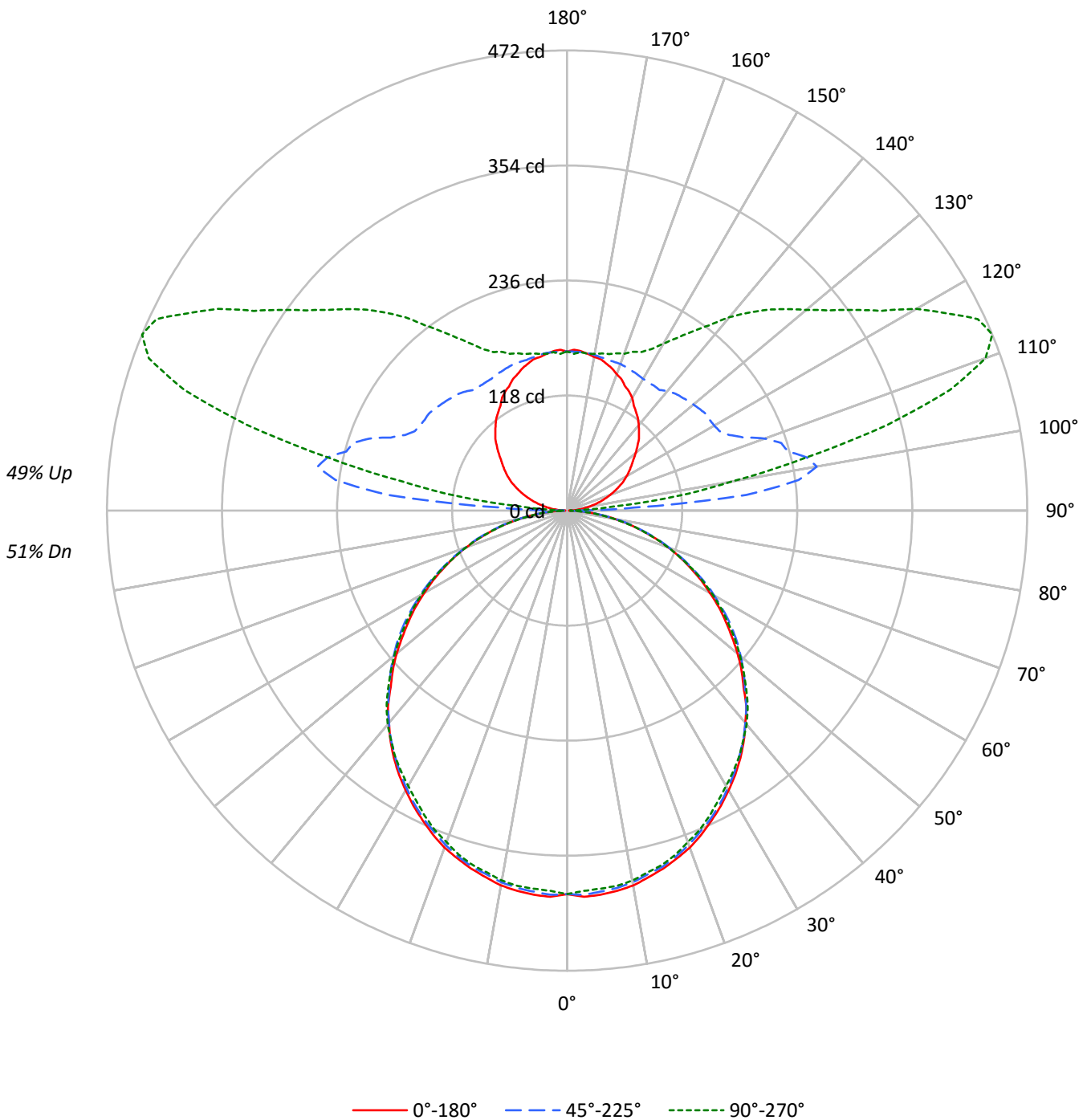
Input Watts (W): 18.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234597

CATALOG NUMBER: CTA-F-5050-20L840-UNV-4

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2541	2541	2541
5°	2564	2544	2524
10°	2560	2540	2527
15°	2542	2528	2514
20°	2528	2508	2486
25°	2498	2484	2462
30°	2470	2455	2432
35°	2442	2427	2427
40°	2398	2398	2414
45°	2336	2355	2374
50°	2294	2335	2325
55°	2238	2307	2272
60°	2185	2251	2225
65°	2133	2181	2165
70°	2079	2098	2079
75°	1984	2009	1984
80°	1856	1897	1819
85°	1660	1660	1512



TEST NUMBER: P234597

CATALOG NUMBER: CTA-F-5050-20L840-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	1.7
10°-20°	106.4	4.8
20°-30°	160.2	7.2
30°-40°	192.4	8.7
40°-50°	199.2	9.0
50°-60°	180.5	8.1
60°-70°	140.2	6.3
70°-80°	84.9	3.8
80°-90°	25.4	1.1
90°-100°	86.7	3.9
100°-110°	223.8	10.1
110°-120°	227.5	10.2
120°-130°	178.3	8.0
130°-140°	140.5	6.3
140°-150°	104.2	4.7
150°-160°	73.7	3.3
160°-170°	45.5	2.0
170°-180°	15.5	0.7
0°-30°	303.9	13.7
0°-40°	496.3	22.3
0°-60°	876.1	39.4
0°-90°	1126.6	50.7
90°-120°	538.0	24.2
90°-150°	960.9	43.2
90°-180°	1096.0	49.3
0°-180°	2222.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	393	393	393	393	393	
5°	396	391	392	391	389	38
15°	380	376	378	377	376	107
25°	351	348	349	346	346	162
35°	310	307	308	307	308	194
45°	256	255	258	260	260	198
55°	199	200	205	203	202	178
65°	140	142	143	142	142	138
75°	80	82	80	80	80	84
85°	22	22	22	21	20	24
90°	2	3	3	3	3	3
95°	11	34	184	82	50	12
105°	35	62	234	388	340	37
115°	59	78	184	398	465	58
125°	80	94	173	305	359	72
135°	104	112	165	250	292	80
145°	123	128	156	203	224	77
155°	141	145	158	172	179	65
165°	156	155	160	165	166	44
175°	164	162	163	162	163	16
180°	163	163	163	163	163	



TEST NUMBER: P234597

CATALOG NUMBER: CTA-F-5050-20L840-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	393.4	393.4	393.4	393.4	393.4
2.5°	396.5	393.4	394.4	393.4	390.4
5°	395.5	391.4	392.4	391.4	389.3
7.5°	393.4	389.3	390.4	389.3	388.3
10°	390.4	386.3	387.3	386.3	385.3
12.5°	385.3	381.2	382.2	381.2	380.2
15°	380.2	376.1	378.1	377.1	376.1
17.5°	374.1	371.0	372.0	371.0	370.0
20°	367.9	363.9	364.9	363.9	361.8
22.5°	359.8	356.7	356.7	355.7	354.7
25°	350.6	347.6	348.6	346.5	345.5
27.5°	341.4	338.4	339.4	337.4	335.3
30°	331.3	328.2	329.2	327.2	326.2
32.5°	321.1	318.0	319.0	317.0	317.0
35°	309.8	306.8	307.8	306.8	307.8
37.5°	297.6	294.6	296.6	296.6	296.6
40°	284.4	282.3	284.4	285.4	286.4
42.5°	272.1	270.1	272.1	274.2	274.2
45°	255.8	254.8	257.9	259.9	259.9
47.5°	242.6	241.6	245.6	246.7	245.6
50°	228.3	228.3	232.4	232.4	231.4
52.5°	213.0	214.0	219.1	218.1	217.1
55°	198.8	199.8	204.9	202.8	201.8
57.5°	184.5	185.5	189.6	187.5	187.5
60°	169.2	171.2	174.3	172.3	172.3
62.5°	154.9	155.9	159.0	157.0	157.0
65°	139.6	141.7	142.7	141.7	141.7
67.5°	125.4	127.4	127.4	125.4	125.4
70°	110.1	112.1	111.1	110.1	110.1
72.5°	94.8	96.8	96.8	94.8	94.8
75°	79.5	81.5	80.5	79.5	79.5
77.5°	65.2	66.3	66.3	64.2	64.2
80°	49.9	51.0	51.0	49.9	48.9
82.5°	35.7	36.7	36.7	34.7	34.7
85°	22.4	22.4	22.4	21.4	20.4
87.5°	9.2	10.2	9.2	8.2	7.1
90°	2.0	3.1	3.1	3.1	3.1
92.5°	6.1	21.4	69.3	20.4	12.2
95°	11.2	33.6	184.5	81.5	49.9
97.5°	17.3	41.8	239.5	152.9	114.2
100°	22.4	53.0	259.9	227.3	172.3
102.5°	28.5	59.1	251.8	313.9	250.7
105°	34.7	62.2	234.4	388.3	340.4
107.5°	40.8	64.2	230.3	427.1	411.8
110°	46.9	68.3	216.1	435.2	456.6



TEST NUMBER: P234597

CATALOG NUMBER: CTA-F-5050-20L840-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.0	73.4	195.7	425.0	471.9
115°	59.1	77.5	183.5	398.5	464.8
117.5°	65.2	81.5	176.3	367.9	438.3
120°	70.3	86.6	174.3	342.5	413.8
122.5°	75.4	90.7	173.3	320.0	381.2
125°	80.5	93.8	173.3	304.8	358.8
127.5°	85.6	97.8	171.2	291.5	337.4
130°	91.7	102.9	169.2	277.2	320.0
132.5°	97.8	108.0	167.2	263.0	305.8
135°	104.0	112.1	165.1	249.7	291.5
137.5°	109.1	116.2	163.1	238.5	275.2
140°	114.2	121.3	160.0	225.3	258.9
142.5°	119.3	124.3	155.9	213.0	239.5
145°	123.3	128.4	155.9	202.8	224.2
147.5°	127.4	133.5	155.9	191.6	210.0
150°	133.5	136.6	155.9	180.4	197.7
152.5°	137.6	140.7	157.0	176.3	186.5
155°	140.7	144.7	158.0	172.3	179.4
157.5°	145.8	147.8	159.0	170.2	176.3
160°	148.8	150.8	160.0	168.2	171.2
162.5°	152.9	152.9	160.0	167.2	169.2
165°	155.9	154.9	160.0	165.1	166.1
167.5°	159.0	157.0	161.0	163.1	165.1
170°	160.0	159.0	162.1	164.1	163.1
172.5°	162.1	161.0	163.1	163.1	162.1
175°	164.1	162.1	163.1	162.1	163.1
177.5°	165.1	163.1	163.1	162.1	161.0
180°	163.1	163.1	163.1	163.1	163.1

(END OF REPORT)