

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: P234598

Luminaire Tested: **CTA-F-5050-20L830-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234598
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.8 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

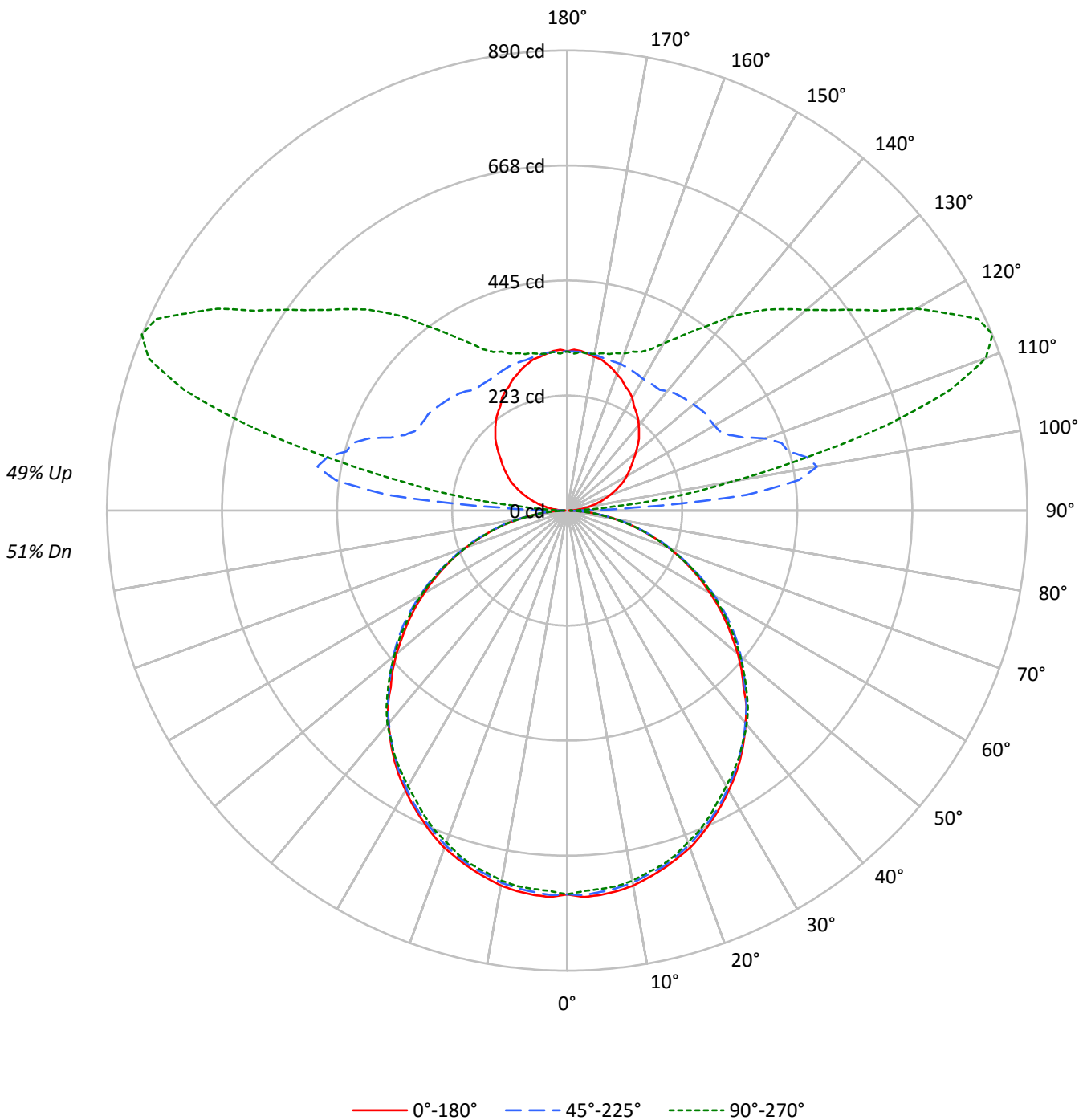
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2419	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°	2261	2261	2278
45°	2204	2222	2239
50°	2164	2203	2193
55°	2111	2176	2144
60°	2061	2123	2099
65°	2013	2057	2042
70°	1961	1979	1961
75°	1871	1895	1871
80°	1752	1789	1716
85°	1567	1567	1426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	1.7
10°-20°	200.8	4.8
20°-30°	302.3	7.2
30°-40°	363.0	8.7
40°-50°	375.9	9.0
50°-60°	340.6	8.1
60°-70°	264.5	6.3
70°-80°	160.2	3.8
80°-90°	47.9	1.1
90°-100°	163.6	3.9
100°-110°	422.2	10.1
110°-120°	429.3	10.2
120°-130°	336.4	8.0
130°-140°	265.0	6.3
140°-150°	196.5	4.7
150°-160°	139.1	3.3
160°-170°	85.8	2.0
170°-180°	29.2	0.7
0°-30°	573.5	13.7
0°-40°	936.4	22.3
0°-60°	1653.0	39.4
0°-90°	2125.6	50.7
90°-120°	1015.1	24.2
90°-150°	1813.1	43.2
90°-180°	2067.0	49.3
0°-180°	4192.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	746	738	740	738	735	71
15°	717	710	714	712	710	202
25°	662	656	658	654	652	305
35°	585	579	581	579	581	365
45°	483	481	486	490	490	374
55°	375	377	386	383	381	335
65°	264	267	269	267	267	261
75°	150	154	152	150	150	159
85°	42	42	42	40	38	45
90°	4	6	6	6	6	5
95°	21	64	348	154	94	22
105°	65	117	442	733	642	69
115°	112	146	346	752	877	110
125°	152	177	327	575	677	136
135°	196	212	312	471	550	151
145°	233	242	294	383	423	146
155°	265	273	298	325	338	123
165°	294	292	302	312	314	83
175°	310	306	308	306	308	29
180°	308	308	308	308	308	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.3	742.3	742.3	742.3	742.3
2.5°	748.1	742.3	744.2	742.3	736.5
5°	746.2	738.5	740.4	738.5	734.6
7.5°	742.3	734.6	736.5	734.6	732.7
10°	736.5	728.8	730.8	728.8	726.9
12.5°	726.9	719.2	721.2	719.2	717.3
15°	717.3	709.6	713.5	711.5	709.6
17.5°	705.8	700.0	701.9	700.0	698.1
20°	694.2	686.5	688.5	686.5	682.7
22.5°	678.8	673.1	673.1	671.2	669.2
25°	661.5	655.8	657.7	653.8	651.9
27.5°	644.2	638.5	640.4	636.5	632.7
30°	625.0	619.2	621.2	617.3	615.4
32.5°	605.8	600.0	601.9	598.1	598.1
35°	584.6	578.8	580.8	578.8	580.8
37.5°	561.5	555.8	559.6	559.6	559.6
40°	536.5	532.7	536.5	538.5	540.4
42.5°	513.5	509.6	513.5	517.3	517.3
45°	482.7	480.8	486.5	490.4	490.4
47.5°	457.7	455.8	463.5	465.4	463.5
50°	430.8	430.8	438.5	438.5	436.5
52.5°	401.9	403.8	413.5	411.5	409.6
55°	375.0	376.9	386.5	382.7	380.8
57.5°	348.1	350.0	357.7	353.8	353.8
60°	319.2	323.1	328.8	325.0	325.0
62.5°	292.3	294.2	300.0	296.2	296.2
65°	263.5	267.3	269.2	267.3	267.3
67.5°	236.5	240.4	240.4	236.5	236.5
70°	207.7	211.5	209.6	207.7	207.7
72.5°	178.8	182.7	182.7	178.8	178.8
75°	150.0	153.8	151.9	150.0	150.0
77.5°	123.1	125.0	125.0	121.2	121.2
80°	94.2	96.2	96.2	94.2	92.3
82.5°	67.3	69.2	69.2	65.4	65.4
85°	42.3	42.3	42.3	40.4	38.5
87.5°	17.3	19.2	17.3	15.4	13.5
90°	3.8	5.8	5.8	5.8	5.8
92.5°	11.5	40.4	130.8	38.5	23.1
95°	21.2	63.5	348.1	153.8	94.2
97.5°	32.7	78.8	451.9	288.5	215.4
100°	42.3	100.0	490.4	428.8	325.0
102.5°	53.8	111.5	475.0	592.3	473.1
105°	65.4	117.3	442.3	732.7	642.3
107.5°	76.9	121.2	434.6	805.8	776.9
110°	88.5	128.8	407.7	821.2	861.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.0	138.5	369.2	801.9	890.4
115°	111.5	146.2	346.2	751.9	876.9
117.5°	123.1	153.8	332.7	694.2	826.9
120°	132.7	163.5	328.8	646.2	780.8
122.5°	142.3	171.2	326.9	603.8	719.2
125°	151.9	176.9	326.9	575.0	676.9
127.5°	161.5	184.6	323.1	550.0	636.5
130°	173.1	194.2	319.2	523.1	603.8
132.5°	184.6	203.8	315.4	496.2	576.9
135°	196.2	211.5	311.5	471.2	550.0
137.5°	205.8	219.2	307.7	450.0	519.2
140°	215.4	228.8	301.9	425.0	488.5
142.5°	225.0	234.6	294.2	401.9	451.9
145°	232.7	242.3	294.2	382.7	423.1
147.5°	240.4	251.9	294.2	361.5	396.2
150°	251.9	257.7	294.2	340.4	373.1
152.5°	259.6	265.4	296.2	332.7	351.9
155°	265.4	273.1	298.1	325.0	338.5
157.5°	275.0	278.8	300.0	321.2	332.7
160°	280.8	284.6	301.9	317.3	323.1
162.5°	288.5	288.5	301.9	315.4	319.2
165°	294.2	292.3	301.9	311.5	313.5
167.5°	300.0	296.2	303.8	307.7	311.5
170°	301.9	300.0	305.8	309.6	307.7
172.5°	305.8	303.8	307.7	307.7	305.8
175°	309.6	305.8	307.7	305.8	307.7
177.5°	311.5	307.7	307.7	305.8	303.8
180°	307.7	307.7	307.7	307.7	307.7

(END OF REPORT)