

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: P234652

Luminaire Tested: **CTA-F-7525-50L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-3D)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-50L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4866.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Semi-Indirect

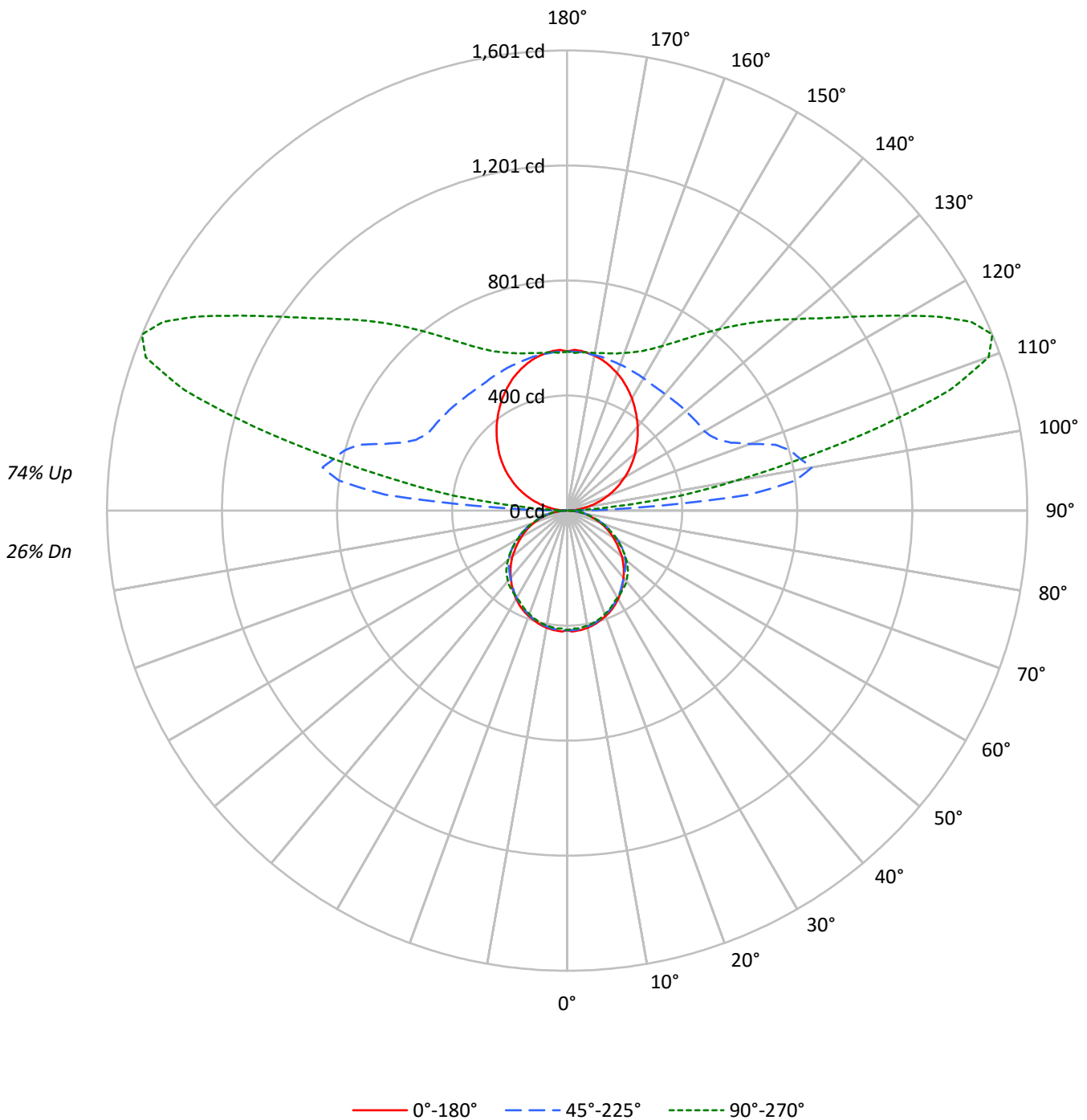
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	81	82	78	75	72	61	59	57	44	43	42	29	29	28	21
2	84	76	70	65	74	68	63	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	54	68	60	54	49	46	42	39	34	31	29	23	21	20	15
4	70	59	51	46	62	53	46	41	41	37	33	30	27	25	20	18	17	12
5	64	52	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	11
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	7
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2688	2688	2688
5°	2717	2693	2668
10°	2712	2680	2661
15°	2700	2674	2655
20°	2683	2656	2637
25°	2672	2638	2617
30°	2646	2617	2610
35°	2608	2592	2646
40°	2569	2586	2708
45°	2538	2608	2731
50°	2502	2656	2705
55°	2425	2653	2631
60°	2384	2608	2570
65°	2336	2541	2512
70°	2288	2470	2432
75°	2231	2400	2350
80°	2216	2324	2254
85°	2067	2282	2134



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.4	0.8
10°-20°	112.8	2.3
20°-30°	170.4	3.5
30°-40°	207.1	4.3
40°-50°	221.0	4.5
50°-60°	203.9	4.2
60°-70°	160.9	3.3
70°-80°	100.4	2.1
80°-90°	33.9	0.7
90°-100°	290.9	6.0
100°-110°	745.2	15.3
110°-120°	744.9	15.3
120°-130°	576.3	11.8
130°-140°	454.9	9.3
140°-150°	346.8	7.1
150°-160°	250.0	5.1
160°-170°	154.6	3.2
170°-180°	52.7	1.1
0°-30°	322.6	6.6
0°-40°	529.7	10.9
0°-60°	954.7	19.6
0°-90°	1249.9	25.7
90°-120°	1780.9	36.6
90°-150°	3158.9	64.9
90°-180°	3616.0	74.3
0°-180°	4866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	419	415	415	414	412	40
15°	404	399	400	399	397	114
25°	375	370	370	368	367	173
35°	331	327	329	333	336	207
45°	278	277	286	295	299	214
55°	215	216	236	234	234	193
65°	153	161	166	164	164	152
75°	89	96	96	96	94	95
85°	28	31	31	32	29	30
90°	3	3	3	3	2	5
95°	31	108	636	290	172	33
105°	110	175	804	1318	1129	116
115°	191	240	582	1314	1552	189
125°	270	312	545	976	1172	242
135°	345	377	534	798	927	266
145°	416	436	528	661	733	261
155°	482	489	536	585	612	222
165°	531	530	545	560	566	150
175°	558	551	553	553	553	53
180°	554	554	554	554	554	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	416.3	416.3	416.3	416.3	416.3
2.5°	421.2	416.3	416.3	415.4	410.6
5°	419.2	415.4	415.4	413.5	411.5
7.5°	417.3	413.5	413.5	411.5	409.6
10°	413.5	408.7	408.7	407.7	405.8
12.5°	409.6	404.8	405.8	403.8	402.9
15°	403.8	399.0	400.0	399.0	397.1
17.5°	397.1	393.3	394.2	393.3	391.3
20°	390.4	385.6	386.5	385.6	383.7
22.5°	383.7	378.8	378.8	376.9	376.0
25°	375.0	370.2	370.2	368.3	367.3
27.5°	365.4	360.6	360.6	358.7	356.7
30°	354.8	350.0	351.0	348.1	350.0
32.5°	343.3	339.4	340.4	341.3	344.2
35°	330.8	326.9	328.8	332.7	335.6
37.5°	318.3	315.4	316.3	325.0	329.8
40°	304.8	302.9	306.7	317.3	321.2
42.5°	292.3	290.4	296.2	307.7	309.6
45°	277.9	276.9	285.6	295.2	299.0
47.5°	263.5	262.5	276.0	283.7	284.6
50°	249.0	248.1	264.4	268.3	269.2
52.5°	230.8	231.7	251.0	252.9	252.9
55°	215.4	216.3	235.6	233.7	233.7
57.5°	200.0	202.9	219.2	216.3	217.3
60°	184.6	188.5	201.9	200.0	199.0
62.5°	169.2	175.0	184.6	181.7	181.7
65°	152.9	160.6	166.3	164.4	164.4
67.5°	137.5	146.2	149.0	147.1	146.2
70°	121.2	130.8	130.8	129.8	128.8
72.5°	105.8	113.5	113.5	112.5	111.5
75°	89.4	96.2	96.2	96.2	94.2
77.5°	74.0	78.8	79.8	78.8	76.9
80°	59.6	62.5	62.5	61.5	60.6
82.5°	45.2	46.2	46.2	46.2	44.2
85°	27.9	30.8	30.8	31.7	28.8
87.5°	15.4	16.3	17.3	16.3	14.4
90°	2.9	2.9	2.9	2.9	1.9
92.5°	15.4	70.2	247.1	56.7	38.5
95°	30.8	107.7	635.6	290.4	172.1
97.5°	49.0	128.8	801.0	521.2	393.3
100°	68.3	165.4	864.4	766.3	588.5
102.5°	88.5	174.0	830.8	1068.3	834.6
105°	109.6	175.0	803.8	1318.3	1128.8
107.5°	130.8	181.7	760.6	1457.7	1397.1
110°	150.0	200.0	676.9	1487.5	1560.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.2	220.2	617.3	1419.2	1601.0
115°	191.3	240.4	581.7	1313.5	1551.9
117.5°	210.6	259.6	562.5	1207.7	1459.6
120°	230.8	277.9	551.9	1114.4	1355.8
122.5°	251.0	295.2	548.1	1037.5	1258.7
125°	270.2	311.5	545.2	976.0	1172.1
127.5°	289.4	327.9	541.3	926.0	1098.1
130°	308.7	344.2	539.4	882.7	1036.5
132.5°	326.0	360.6	536.5	839.4	980.8
135°	345.2	376.9	533.7	798.1	926.9
137.5°	363.5	392.3	530.8	759.6	874.0
140°	381.7	407.7	529.8	724.0	824.0
142.5°	399.0	423.1	528.8	691.3	776.0
145°	416.3	436.5	527.9	660.6	732.7
147.5°	433.7	451.0	528.8	635.6	693.3
150°	451.0	464.4	531.7	615.4	660.6
152.5°	466.3	476.9	533.7	597.1	633.7
155°	481.7	489.4	535.6	584.6	611.5
157.5°	496.2	501.0	538.5	575.0	596.2
160°	508.7	511.5	540.4	568.3	583.7
162.5°	520.2	521.2	542.3	563.5	573.1
165°	530.8	529.8	545.2	559.6	566.3
167.5°	540.4	536.5	548.1	555.8	561.5
170°	547.1	542.3	549.0	554.8	556.7
172.5°	552.9	547.1	551.0	552.9	554.8
175°	557.7	551.0	552.9	552.9	552.9
177.5°	559.6	552.9	552.9	552.9	549.0
180°	553.8	553.8	553.8	553.8	553.8

(END OF REPORT)