

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: P234653

Luminaire Tested: **CTA-F-7525-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234653
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-7525-50L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5157.9 lumens
Efficiency: N/A
Efficacy: 137.2 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

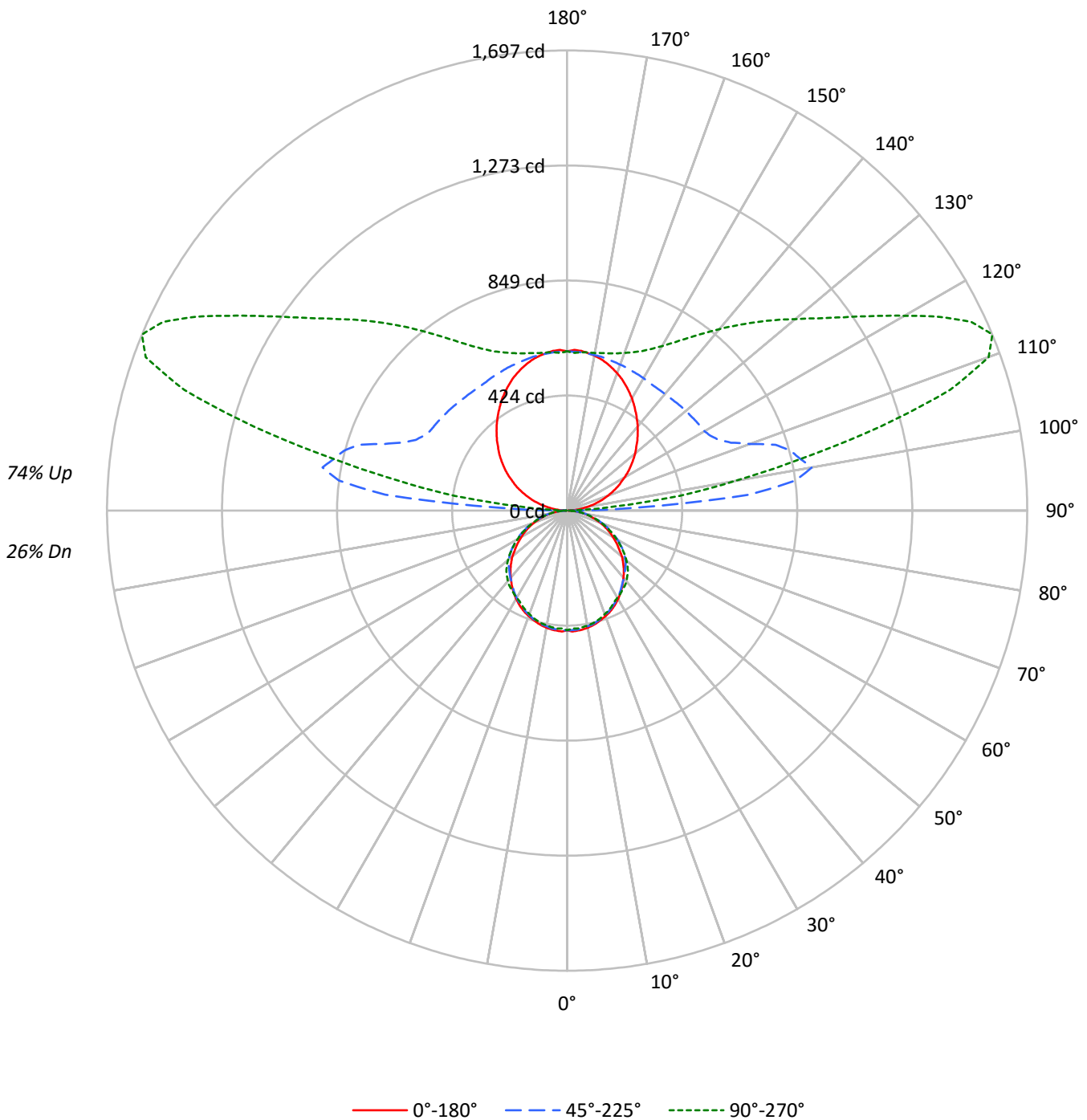
Input Watts (W): 37.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2850	2850	2850
5°	2881	2854	2828
10°	2874	2841	2820
15°	2862	2835	2814
20°	2844	2816	2795
25°	2832	2796	2774
30°	2805	2774	2766
35°	2764	2748	2804
40°	2724	2741	2870
45°	2691	2764	2895
50°	2652	2816	2867
55°	2570	2811	2789
60°	2528	2764	2725
65°	2477	2694	2663
70°	2424	2617	2579
75°	2365	2543	2493
80°	2350	2462	2388
85°	2193	2416	2267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.8	0.8
10°-20°	119.5	2.3
20°-30°	180.7	3.5
30°-40°	219.5	4.3
40°-50°	234.3	4.5
50°-60°	216.1	4.2
60°-70°	170.5	3.3
70°-80°	106.4	2.1
80°-90°	35.9	0.7
90°-100°	308.3	6.0
100°-110°	789.9	15.3
110°-120°	789.6	15.3
120°-130°	610.9	11.8
130°-140°	482.1	9.3
140°-150°	367.6	7.1
150°-160°	265.0	5.1
160°-170°	163.8	3.2
170°-180°	55.8	1.1
0°-30°	342.0	6.6
0°-40°	561.5	10.9
0°-60°	1011.9	19.6
0°-90°	1324.9	25.7
90°-120°	1887.7	36.6
90°-150°	3348.4	64.9
90°-180°	3833.0	74.3
0°-180°	5157.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	441	441	441	441	441	
5°	444	440	440	438	436	42
15°	428	423	424	423	421	121
25°	398	392	392	390	389	183
35°	351	346	349	353	356	219
45°	295	294	303	313	317	227
55°	228	229	250	248	248	205
65°	162	170	176	174	174	161
75°	95	102	102	102	100	101
85°	30	33	33	34	31	32
90°	3	3	3	3	2	5
95°	33	114	674	308	182	35
105°	116	186	852	1397	1197	122
115°	203	255	617	1392	1645	200
125°	286	330	578	1034	1242	256
135°	366	400	566	846	982	282
145°	441	463	560	700	777	276
155°	511	519	568	620	648	235
165°	563	562	578	593	600	159
175°	591	584	586	586	586	56
180°	587	587	587	587	587	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	441.3	441.3	441.3	441.3	441.3
2.5°	446.4	441.3	441.3	440.3	435.2
5°	444.4	440.3	440.3	438.3	436.2
7.5°	442.3	438.3	438.3	436.2	434.2
10°	438.3	433.2	433.2	432.2	430.1
12.5°	434.2	429.1	430.1	428.1	427.1
15°	428.1	423.0	424.0	423.0	420.9
17.5°	420.9	416.9	417.9	416.9	414.8
20°	413.8	408.7	409.7	408.7	406.7
22.5°	406.7	401.6	401.6	399.5	398.5
25°	397.5	392.4	392.4	390.4	389.3
27.5°	387.3	382.2	382.2	380.2	378.1
30°	376.1	371.0	372.0	369.0	371.0
32.5°	363.9	359.8	360.8	361.8	364.9
35°	350.6	346.5	348.6	352.7	355.7
37.5°	337.4	334.3	335.3	344.5	349.6
40°	323.1	321.1	325.1	336.3	340.4
42.5°	309.8	307.8	313.9	326.2	328.2
45°	294.6	293.5	302.7	312.9	317.0
47.5°	279.3	278.2	292.5	300.7	301.7
50°	264.0	263.0	280.3	284.4	285.4
52.5°	244.6	245.6	266.0	268.1	268.1
55°	228.3	229.3	249.7	247.7	247.7
57.5°	212.0	215.1	232.4	229.3	230.3
60°	195.7	199.8	214.0	212.0	211.0
62.5°	179.4	185.5	195.7	192.6	192.6
65°	162.1	170.2	176.3	174.3	174.3
67.5°	145.7	154.9	158.0	155.9	154.9
70°	128.4	138.6	138.6	137.6	136.6
72.5°	112.1	120.3	120.3	119.2	118.2
75°	94.8	101.9	101.9	101.9	99.9
77.5°	78.5	83.6	84.6	83.6	81.5
80°	63.2	66.2	66.2	65.2	64.2
82.5°	47.9	48.9	48.9	48.9	46.9
85°	29.6	32.6	32.6	33.6	30.6
87.5°	16.3	17.3	18.3	17.3	15.3
90°	3.1	3.1	3.1	3.1	2.0
92.5°	16.3	74.4	261.9	60.1	40.8
95°	32.6	114.2	673.7	307.8	182.4
97.5°	52.0	136.6	849.0	552.4	416.9
100°	72.4	175.3	916.3	812.3	623.8
102.5°	93.8	184.5	880.6	1132.4	884.7
105°	116.2	185.5	852.1	1397.4	1196.6
107.5°	138.6	192.6	806.2	1545.2	1480.9
110°	159.0	212.0	717.5	1576.7	1654.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.4	233.4	654.3	1504.4	1697.0
115°	202.8	254.8	616.6	1392.3	1645.0
117.5°	223.2	275.2	596.2	1280.2	1547.2
120°	244.6	294.6	585.0	1181.3	1437.1
122.5°	266.0	312.9	581.0	1099.7	1334.2
125°	286.4	330.2	577.9	1034.5	1242.4
127.5°	306.8	347.6	573.8	981.5	1164.0
130°	327.2	364.9	571.8	935.7	1098.7
132.5°	345.5	382.2	568.7	889.8	1039.6
135°	365.9	399.5	565.7	846.0	982.5
137.5°	385.3	415.8	562.6	805.2	926.5
140°	404.6	432.2	561.6	767.5	873.5
142.5°	423.0	448.5	560.6	732.8	822.5
145°	441.3	462.7	559.6	700.2	776.7
147.5°	459.7	478.0	560.6	673.7	734.9
150°	478.0	492.3	563.6	652.3	700.2
152.5°	494.3	505.5	565.7	632.9	671.7
155°	510.6	518.8	567.7	619.7	648.2
157.5°	525.9	531.0	570.8	609.5	631.9
160°	539.2	542.2	572.8	602.4	618.7
162.5°	551.4	552.4	574.8	597.3	607.5
165°	562.6	561.6	577.9	593.2	600.3
167.5°	572.8	568.7	581.0	589.1	595.2
170°	579.9	574.8	582.0	588.1	590.1
172.5°	586.1	579.9	584.0	586.1	588.1
175°	591.2	584.0	586.1	586.1	586.1
177.5°	593.2	586.1	586.1	586.1	582.0
180°	587.1	587.1	587.1	587.1	587.1

(END OF REPORT)