

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: P234656

Luminaire Tested: **CTA-F-7525-50L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234656
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

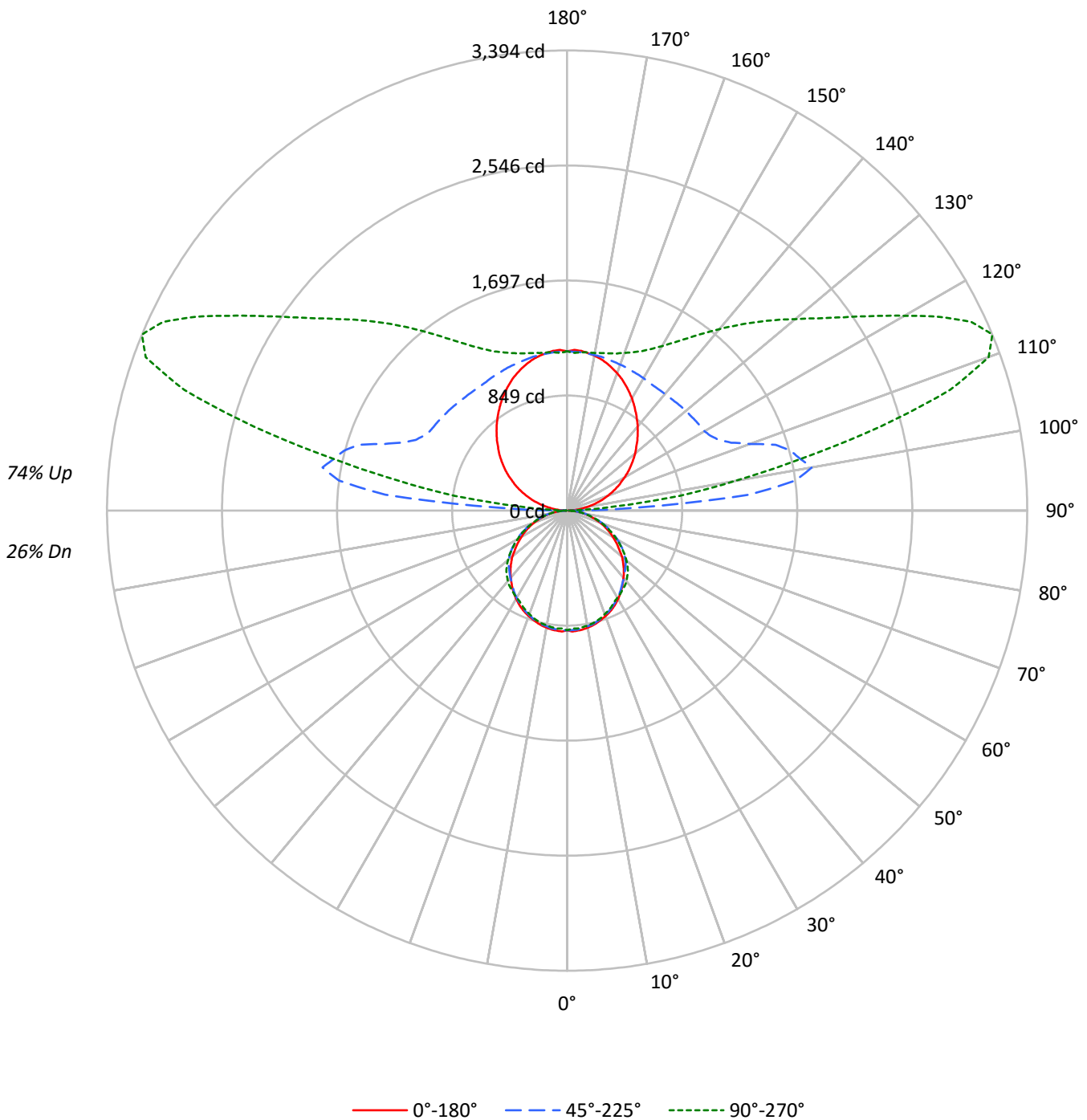
Lumens per Lamp: N/A
Luminaire Lumens: 10315.8 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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: P234656
CATALOG NUMBER: CTA-F-7525-50L840-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234656

CATALOG NUMBER: CTA-F-7525-50L840-UNV-8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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	2840	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°	2690	2764	2895
50°	2652	2816	2867
55°	2570	2811	2788
60°	2528	2765	2725
65°	2476	2695	2663
70°	2424	2617	2579
75°	2365	2543	2493
80°	2350	2464	2388
85°	2190	2416	2267



TEST NUMBER: P234656

CATALOG NUMBER: CTA-F-7525-50L840-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	0.8
10°-20°	239.1	2.3
20°-30°	361.3	3.5
30°-40°	439.1	4.3
40°-50°	468.6	4.5
50°-60°	432.2	4.2
60°-70°	341.1	3.3
70°-80°	212.9	2.1
80°-90°	71.9	0.7
90°-100°	616.6	6.0
100°-110°	1579.8	15.3
110°-120°	1579.1	15.3
120°-130°	1221.8	11.8
130°-140°	964.3	9.3
140°-150°	735.2	7.1
150°-160°	530.0	5.1
160°-170°	327.6	3.2
170°-180°	111.6	1.1
0°-30°	684.0	6.6
0°-40°	1123.1	10.9
0°-60°	2023.8	19.6
0°-90°	2649.8	25.7
90°-120°	3775.5	36.6
90°-150°	6696.8	64.9
90°-180°	7666.0	74.3
0°-180°	10315.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	889	881	881	876	872	84
15°	856	846	848	846	842	242
25°	795	785	785	781	779	366
35°	701	693	697	705	711	439
45°	589	587	605	626	634	455
55°	457	459	499	495	495	409
65°	324	340	353	349	349	321
75°	190	204	204	204	200	201
85°	59	65	65	67	61	64
90°	6	6	6	6	4	11
95°	65	228	1347	616	365	70
105°	232	371	1704	2795	2393	245
115°	406	510	1233	2784	3290	401
125°	573	660	1156	2069	2485	512
135°	732	799	1131	1692	1965	565
145°	883	926	1119	1400	1553	553
155°	1021	1038	1135	1239	1296	470
165°	1125	1123	1156	1186	1201	317
175°	1182	1168	1172	1172	1172	112
180°	1174	1174	1174	1174	1174	



TEST NUMBER: P234656

CATALOG NUMBER: CTA-F-7525-50L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.7	882.7	882.7	882.7	882.7
2.5°	892.8	882.7	882.7	880.6	870.4
5°	888.8	880.6	880.6	876.5	872.5
7.5°	884.7	876.5	876.5	872.5	868.4
10°	876.5	866.3	866.3	864.3	860.2
12.5°	868.4	858.2	860.2	856.2	854.1
15°	856.2	846.0	848.0	846.0	841.9
17.5°	841.9	833.7	835.8	833.7	829.7
20°	827.6	817.4	819.5	817.4	813.3
22.5°	813.3	803.2	803.2	799.1	797.0
25°	795.0	784.8	784.8	780.7	778.7
27.5°	774.6	764.4	764.4	760.3	756.3
30°	752.2	742.0	744.0	737.9	742.0
32.5°	727.7	719.6	721.6	723.7	729.8
35°	701.2	693.1	697.2	705.3	711.4
37.5°	674.7	668.6	670.7	689.0	699.2
40°	646.2	642.1	650.3	672.7	680.8
42.5°	619.7	615.6	627.8	652.3	656.4
45°	589.1	587.1	605.4	625.8	634.0
47.5°	558.5	556.5	585.0	601.3	603.4
50°	528.0	525.9	560.6	568.7	570.8
52.5°	489.2	491.3	532.0	536.1	536.1
55°	456.6	458.7	499.4	495.3	495.3
57.5°	424.0	430.1	464.8	458.7	460.7
60°	391.4	399.5	428.1	424.0	422.0
62.5°	358.8	371.0	391.4	385.3	385.3
65°	324.1	340.4	352.7	348.6	348.6
67.5°	291.5	309.8	316.0	311.9	309.8
70°	256.8	277.2	277.2	275.2	273.2
72.5°	224.2	240.5	240.5	238.5	236.5
75°	189.6	203.8	203.8	203.8	199.8
77.5°	157.0	167.2	169.2	167.2	163.1
80°	126.4	132.5	132.5	130.5	128.4
82.5°	95.8	97.8	97.8	97.8	93.8
85°	59.1	65.2	65.2	67.3	61.2
87.5°	32.6	34.7	36.7	34.7	30.6
90°	6.1	6.1	6.1	6.1	4.1
92.5°	32.6	148.8	523.9	120.3	81.5
95°	65.2	228.3	1347.4	615.6	364.9
97.5°	104.0	273.2	1698.0	1104.8	833.7
100°	144.7	350.6	1832.6	1624.7	1247.5
102.5°	187.5	369.0	1761.2	2264.7	1769.4
105°	232.4	371.0	1704.2	2794.7	2393.2
107.5°	277.2	385.3	1612.4	3090.3	2961.9
110°	318.0	424.0	1435.1	3153.5	3308.4



TEST NUMBER: P234656

CATALOG NUMBER: CTA-F-7525-50L840-UNV-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.8	466.8	1308.7	3008.8	3394.0
115°	405.7	509.6	1233.3	2784.5	3290.1
117.5°	446.4	550.4	1192.5	2560.3	3094.4
120°	489.2	589.1	1170.1	2362.6	2874.2
122.5°	532.0	625.8	1161.9	2199.5	2668.3
125°	572.8	660.5	1155.8	2069.0	2484.9
127.5°	613.6	695.1	1147.7	1963.0	2327.9
130°	654.3	729.8	1143.6	1871.3	2197.5
132.5°	691.0	764.4	1137.5	1779.6	2079.2
135°	731.8	799.1	1131.3	1691.9	1965.1
137.5°	770.5	831.7	1125.2	1610.4	1853.0
140°	809.3	864.3	1123.2	1535.0	1747.0
142.5°	846.0	896.9	1121.2	1465.7	1645.0
145°	882.7	925.5	1119.1	1400.4	1553.3
147.5°	919.3	956.0	1121.2	1347.4	1469.7
150°	956.0	984.6	1127.3	1304.6	1400.4
152.5°	988.7	1011.1	1131.3	1265.9	1343.3
155°	1021.3	1037.6	1135.4	1239.4	1296.5
157.5°	1051.8	1062.0	1141.5	1219.0	1263.8
160°	1078.3	1084.5	1145.6	1204.7	1237.3
162.5°	1102.8	1104.8	1149.7	1194.5	1214.9
165°	1125.2	1123.2	1155.8	1186.4	1200.7
167.5°	1145.6	1137.5	1161.9	1178.2	1190.5
170°	1159.9	1149.7	1164.0	1176.2	1180.3
172.5°	1172.1	1159.9	1168.0	1172.1	1176.2
175°	1182.3	1168.0	1172.1	1172.1	1172.1
177.5°	1186.4	1172.1	1172.1	1172.1	1164.0
180°	1174.2	1174.2	1174.2	1174.2	1174.2

(END OF REPORT)