

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: P234660

Luminaire Tested: **CTA-F-7525-60L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-7525-60L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 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: 5819.8 lumens
Efficiency: N/A
Efficacy: 127.1 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

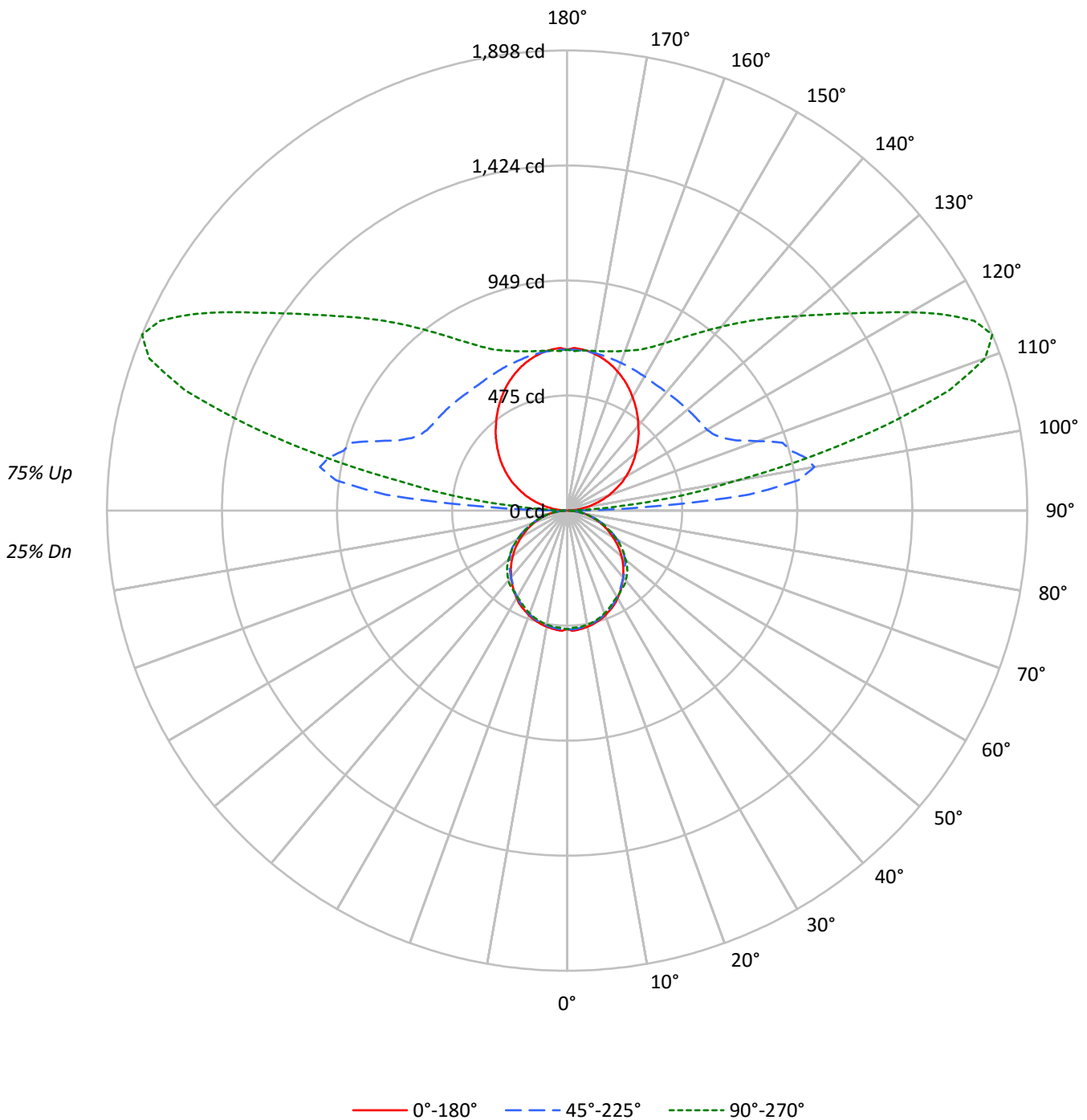
Input Watts (W): 45.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	81	82	78	75	72	60	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19	14
4	69	59	51	46	62	53	46	41	41	36	33	30	27	25	20	18	17	12
5	64	52	44	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	25	21	22	18	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	13	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3160	3160	3160
5°	3204	3167	3136
10°	3190	3159	3134
15°	3176	3144	3124
20°	3159	3126	3099
25°	3138	3097	3070
30°	3104	3076	3062
35°	3070	3040	3108
40°	3031	3040	3177
45°	2995	3065	3206
50°	2947	3120	3169
55°	2890	3139	3118
60°	2807	3080	3018
65°	2763	2983	2938
70°	2706	2904	2851
75°	2662	2807	2735
80°	2573	2719	2611
85°	2423	2638	2497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	0.8
10°-20°	132.7	2.3
20°-30°	200.3	3.4
30°-40°	243.3	4.2
40°-50°	259.8	4.5
50°-60°	240.8	4.1
60°-70°	188.7	3.2
70°-80°	117.7	2.0
80°-90°	39.5	0.7
90°-100°	352.4	6.1
100°-110°	892.9	15.3
110°-120°	897.2	15.4
120°-130°	695.6	12.0
130°-140°	547.0	9.4
140°-150°	416.8	7.2
150°-160°	300.1	5.2
160°-170°	185.5	3.2
170°-180°	63.2	1.1
0°-30°	379.4	6.5
0°-40°	622.7	10.7
0°-60°	1123.4	19.3
0°-90°	1469.2	25.2
90°-120°	2142.5	36.8
90°-150°	3801.9	65.3
90°-180°	4351.0	74.8
0°-180°	5819.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	494	488	488	486	484	47
15°	475	470	470	469	467	134
25°	440	436	435	433	431	203
35°	389	385	386	391	394	243
45°	328	325	336	348	351	253
55°	257	257	279	277	277	229
65°	181	188	195	192	192	179
75°	107	114	112	112	110	112
85°	33	36	36	36	34	35
90°	3	4	5	4	3	6
95°	38	130	751	354	229	40
105°	131	216	955	1555	1362	138
115°	230	290	708	1589	1852	228
125°	326	375	656	1182	1417	291
135°	414	453	642	962	1114	320
145°	500	524	635	795	881	313
155°	578	586	643	702	734	266
165°	636	635	655	672	680	179
175°	668	661	662	662	662	63
180°	664	664	664	664	664	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	489.4	489.4	489.4	489.4	489.4
2.5°	496.2	490.4	490.4	488.5	483.7
5°	494.2	488.5	488.5	486.5	483.7
7.5°	490.4	485.6	485.6	484.6	481.7
10°	486.5	481.7	481.7	479.8	477.9
12.5°	481.7	476.0	476.9	475.0	473.1
15°	475.0	470.2	470.2	469.2	467.3
17.5°	468.3	462.5	463.5	462.5	459.6
20°	459.6	454.8	454.8	452.9	451.0
22.5°	450.0	445.2	445.2	443.3	441.3
25°	440.4	435.6	434.6	432.7	430.8
27.5°	429.8	424.0	424.0	422.1	419.2
30°	416.3	412.5	412.5	409.6	410.6
32.5°	402.9	399.0	400.0	400.0	402.9
35°	389.4	384.6	385.6	391.3	394.2
37.5°	374.0	370.2	372.1	381.7	387.5
40°	359.6	355.8	360.6	373.1	376.9
42.5°	343.3	341.3	348.1	360.6	363.5
45°	327.9	325.0	335.6	348.1	351.0
47.5°	310.6	308.7	324.0	332.7	334.6
50°	293.3	292.3	310.6	316.3	315.4
52.5°	275.0	275.0	295.2	297.1	297.1
55°	256.7	256.7	278.8	276.9	276.9
57.5°	236.5	239.4	260.6	256.7	256.7
60°	217.3	220.2	238.5	233.7	233.7
62.5°	199.0	204.8	216.3	213.5	213.5
65°	180.8	188.5	195.2	192.3	192.3
67.5°	162.5	171.2	174.0	172.1	172.1
70°	143.3	152.9	153.8	151.9	151.0
72.5°	126.0	133.7	132.7	131.7	130.8
75°	106.7	113.5	112.5	111.5	109.6
77.5°	87.5	93.3	92.3	91.3	89.4
80°	69.2	73.1	73.1	72.1	70.2
82.5°	51.9	53.8	53.8	52.9	51.9
85°	32.7	36.5	35.6	35.6	33.7
87.5°	16.3	20.2	19.2	19.2	16.3
90°	2.9	3.8	4.8	3.8	2.9
92.5°	19.2	83.7	312.5	74.0	50.0
95°	37.5	129.8	751.0	353.8	228.8
97.5°	58.7	155.8	961.5	633.7	478.8
100°	81.7	202.9	1035.6	931.7	702.9
102.5°	105.8	213.5	1006.7	1277.9	1029.8
105°	130.8	216.3	954.8	1554.8	1362.5
107.5°	155.8	220.2	931.7	1722.1	1653.8
110°	180.8	241.3	836.5	1764.4	1834.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.8	267.3	754.8	1704.8	1898.1
115°	229.8	290.4	707.7	1589.4	1851.9
117.5°	255.8	312.5	680.8	1462.5	1751.9
120°	279.8	333.7	666.3	1351.9	1635.6
122.5°	302.9	354.8	659.6	1259.6	1518.3
125°	326.0	375.0	655.8	1181.7	1417.3
127.5°	348.1	394.2	651.9	1118.3	1326.9
130°	370.2	413.5	649.0	1060.6	1248.1
132.5°	392.3	433.7	645.2	1008.7	1178.8
135°	414.4	452.9	642.3	961.5	1113.5
137.5°	436.5	472.1	639.4	915.4	1050.0
140°	456.7	489.4	636.5	870.2	989.4
142.5°	478.8	507.7	636.5	831.7	932.7
145°	500.0	524.0	634.6	795.2	880.8
147.5°	520.2	540.4	636.5	765.4	834.6
150°	540.4	556.7	638.5	740.4	795.2
152.5°	559.6	572.1	640.4	718.3	761.5
155°	577.9	586.5	643.3	701.9	733.7
157.5°	594.2	600.0	646.2	691.3	715.4
160°	609.6	613.5	648.1	682.7	701.0
162.5°	624.0	625.0	651.0	676.9	688.5
165°	636.5	634.6	654.8	672.1	679.8
167.5°	647.1	644.2	656.7	667.3	673.1
170°	655.8	651.9	659.6	665.4	668.3
172.5°	663.5	656.7	661.5	663.5	665.4
175°	668.3	660.6	662.5	662.5	662.5
177.5°	671.2	663.5	663.5	663.5	658.7
180°	663.5	663.5	663.5	663.5	663.5

(END OF REPORT)