

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: P234612

Luminaire Tested: **CTA-F-5050-40L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-40L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

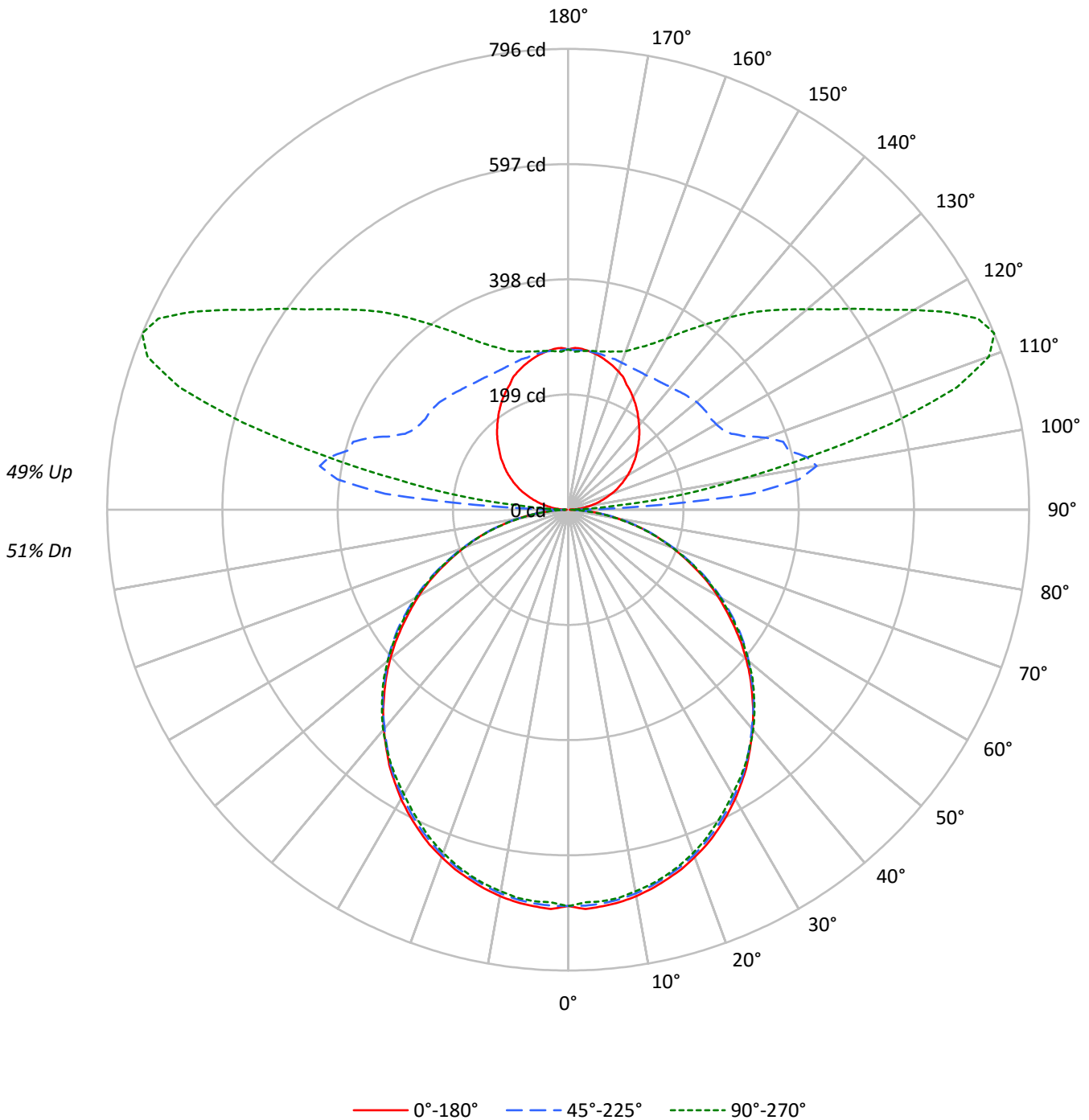
Lumens per Lamp: N/A
Luminaire Lumens: 3821.2 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 32.7
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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43				43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35				35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30				30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25				25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22				22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19				19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17				17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15				15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13				13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4421	4421	4421
5°	4457	4426	4400
10°	4445	4414	4388
15°	4417	4390	4371
20°	4388	4361	4335
25°	4351	4317	4282
30°	4302	4266	4230
35°	4245	4222	4215
40°	4175	4159	4191
45°	4101	4136	4144
50°	4029	4086	4086
55°	3929	4039	4006
60°	3850	3950	3912
65°	3732	3835	3791
70°	3612	3667	3612
75°	3478	3503	3456
80°	3217	3254	3146
85°	2853	2853	2564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.7
10°-20°	185.1	4.8
20°-30°	278.6	7.3
30°-40°	334.5	8.8
40°-50°	347.8	9.1
50°-60°	316.5	8.3
60°-70°	245.4	6.4
70°-80°	147.9	3.9
80°-90°	44.4	1.2
90°-100°	148.7	3.9
100°-110°	379.3	9.9
110°-120°	383.6	10.0
120°-130°	300.0	7.9
130°-140°	237.2	6.2
140°-150°	178.2	4.7
150°-160°	125.8	3.3
160°-170°	77.3	2.0
170°-180°	26.3	0.7
0°-30°	528.5	13.8
0°-40°	863.0	22.6
0°-60°	1527.2	40.0
0°-90°	1964.9	51.4
90°-120°	911.6	23.9
90°-150°	1626.9	42.6
90°-180°	1856.0	48.6
0°-180°	3821.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	685	685	685	685	685	
5°	688	681	683	681	679	65
15°	661	655	657	656	654	187
25°	611	604	606	603	601	281
35°	538	534	536	534	535	336
45°	449	447	453	454	454	347
55°	349	350	359	355	356	313
65°	244	247	251	248	248	242
75°	139	142	140	139	138	147
85°	38	40	38	38	35	41
90°	3	6	6	7	5	4
95°	18	57	317	142	90	19
105°	58	103	394	662	581	61
115°	99	132	311	670	781	98
125°	136	162	292	507	605	122
135°	173	189	283	422	486	133
145°	208	218	271	346	384	130
155°	238	243	268	296	312	110
165°	264	264	272	280	283	75
175°	279	275	276	276	275	26
180°	277	277	277	277	277	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	684.6	684.6	684.6	684.6	684.6
2.5°	690.4	683.7	684.6	683.7	678.8
5°	687.5	680.8	682.7	680.8	678.8
7.5°	683.7	676.9	678.8	676.9	676.0
10°	677.9	671.2	673.1	671.2	669.2
12.5°	670.2	663.5	665.4	663.5	662.5
15°	660.6	654.8	656.7	655.8	653.8
17.5°	651.0	644.2	646.2	646.2	643.3
20°	638.5	632.7	634.6	632.7	630.8
22.5°	626.0	619.2	621.2	618.3	617.3
25°	610.6	603.8	605.8	602.9	601.0
27.5°	594.2	587.5	589.4	586.5	584.6
30°	576.9	571.2	572.1	569.2	567.3
32.5°	557.7	552.9	554.8	551.0	551.0
35°	538.5	533.7	535.6	533.7	534.6
37.5°	516.3	512.5	514.4	516.3	515.4
40°	495.2	491.3	493.3	496.2	497.1
42.5°	473.1	469.2	473.1	475.0	476.0
45°	449.0	447.1	452.9	453.8	453.8
47.5°	426.0	423.1	428.8	430.8	431.7
50°	401.0	399.0	406.7	406.7	406.7
52.5°	376.0	375.0	383.7	381.7	381.7
55°	349.0	350.0	358.7	354.8	355.8
57.5°	323.1	324.0	331.7	329.8	328.8
60°	298.1	300.0	305.8	302.9	302.9
62.5°	272.1	274.0	277.9	276.0	275.0
65°	244.2	247.1	251.0	248.1	248.1
67.5°	217.3	221.2	221.2	220.2	219.2
70°	191.3	195.2	194.2	193.3	191.3
72.5°	165.4	169.2	166.3	166.3	165.4
75°	139.4	142.3	140.4	139.4	138.5
77.5°	112.5	115.4	114.4	112.5	110.6
80°	86.5	89.4	87.5	86.5	84.6
82.5°	62.5	64.4	63.5	61.5	59.6
85°	38.5	40.4	38.5	37.5	34.6
87.5°	16.3	18.3	16.3	14.4	12.5
90°	2.9	5.8	5.8	6.7	4.8
92.5°	10.6	38.5	123.1	35.6	23.1
95°	18.3	56.7	317.3	142.3	90.4
97.5°	28.8	69.2	401.9	263.5	197.1
100°	37.5	89.4	435.6	392.3	298.1
102.5°	48.1	100.0	421.2	539.4	432.7
105°	57.7	102.9	394.2	661.5	580.8
107.5°	68.3	105.8	389.4	723.1	703.8
110°	78.8	113.5	363.5	736.5	773.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	89.4	122.1	330.8	717.3	796.2
115°	99.0	131.7	310.6	670.2	780.8
117.5°	108.7	140.4	300.0	617.3	738.5
120°	118.3	147.1	295.2	574.0	689.4
122.5°	127.9	154.8	292.3	534.6	642.3
125°	136.5	161.5	292.3	506.7	604.8
127.5°	146.2	168.3	291.3	482.7	568.3
130°	154.8	175.0	289.4	462.5	538.5
132.5°	163.5	182.7	285.6	442.3	511.5
135°	173.1	189.4	282.7	422.1	486.5
137.5°	181.7	196.2	278.8	401.9	460.6
140°	190.4	203.8	276.0	382.7	433.7
142.5°	199.0	211.5	273.1	363.5	407.7
145°	207.7	218.3	271.2	346.2	383.7
147.5°	216.3	224.0	270.2	329.8	362.5
150°	224.0	230.8	268.3	316.3	341.3
152.5°	231.7	236.5	268.3	305.8	325.0
155°	238.5	243.3	268.3	296.2	311.5
157.5°	248.1	251.0	269.2	289.4	301.0
160°	253.8	255.8	270.2	284.6	291.3
162.5°	259.6	260.6	272.1	282.7	286.5
165°	264.4	264.4	272.1	279.8	282.7
167.5°	269.2	268.3	274.0	277.9	279.8
170°	273.1	271.2	275.0	277.9	277.9
172.5°	276.0	274.0	276.0	276.9	276.9
175°	278.8	275.0	276.0	276.0	275.0
177.5°	279.8	276.0	276.0	276.0	273.1
180°	276.9	276.9	276.9	276.9	276.9

(END OF REPORT)