

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: P234621

Luminaire Tested: **CTA-F-5050-50L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-8D)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-50L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

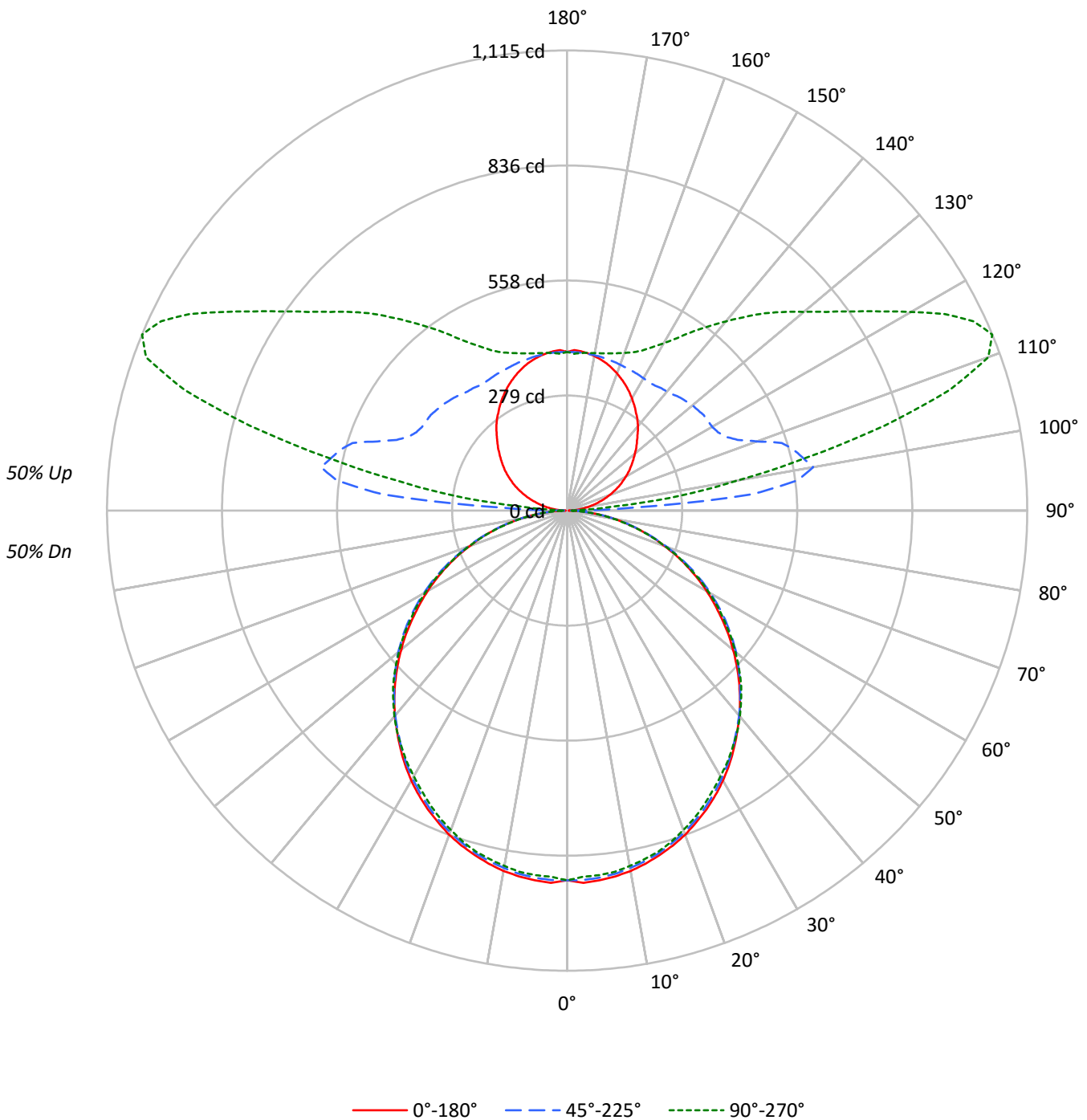
Lumens per Lamp: N/A
Luminaire Lumens: 5149.1 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 41.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	85	90	86	83	79	73	70	68	60	59	57	49	48	47	42
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34
3	81	71	63	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29
4	74	63	55	48	68	58	51	45	49	44	40	41	37	34	34	31	28	25
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	19
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5786	5786	5786
5°	5828	5788	5748
10°	5814	5768	5734
15°	5778	5744	5717
20°	5744	5702	5659
25°	5694	5650	5599
30°	5632	5586	5540
35°	5552	5520	5512
40°	5474	5464	5491
45°	5380	5408	5446
50°	5273	5366	5345
55°	5152	5291	5233
60°	5042	5187	5121
65°	4922	5046	4952
70°	4734	4830	4773
75°	4579	4628	4526
80°	4321	4359	4247
85°	3853	3853	3623



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.6
10°-20°	242.0	4.7
20°-30°	364.5	7.1
30°-40°	438.1	8.5
40°-50°	456.2	8.9
50°-60°	415.1	8.1
60°-70°	323.2	6.3
70°-80°	194.9	3.8
80°-90°	59.6	1.2
90°-100°	205.5	4.0
100°-110°	527.3	10.2
110°-120°	530.9	10.3
120°-130°	415.4	8.1
130°-140°	327.6	6.4
140°-150°	245.6	4.8
150°-160°	174.3	3.4
160°-170°	107.6	2.1
170°-180°	36.6	0.7
0°-30°	691.2	13.4
0°-40°	1129.4	21.9
0°-60°	2000.7	38.9
0°-90°	2578.3	50.1
90°-120°	1263.7	24.5
90°-150°	2252.3	43.7
90°-180°	2571.0	49.9
0°-180°	5149.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	899	891	893	890	887	85
15°	864	856	859	858	855	244
25°	799	791	793	789	786	368
35°	704	698	700	700	699	441
45°	589	586	592	595	596	454
55°	458	459	470	467	465	410
65°	322	327	330	327	324	318
75°	184	186	186	182	181	194
85°	52	54	52	50	49	56
90°	4	7	7	8	6	6
95°	24	82	447	190	118	26
105°	80	134	569	918	797	85
115°	138	179	423	930	1086	136
125°	190	220	404	704	841	170
135°	240	264	387	583	676	185
145°	290	305	370	472	529	182
155°	335	340	373	408	427	154
165°	369	368	379	389	394	104
175°	387	383	384	384	383	37
180°	384	384	384	384	384	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	895.9	895.9	895.9	895.9	895.9
2.5°	903.0	893.9	895.9	893.9	887.8
5°	899.0	890.8	892.8	889.8	886.7
7.5°	893.9	884.7	887.8	884.7	882.7
10°	886.7	877.6	879.6	877.6	874.5
12.5°	876.5	867.4	870.4	868.4	865.3
15°	864.3	856.2	859.2	858.2	855.1
17.5°	851.1	842.9	844.9	843.9	840.9
20°	835.8	826.6	829.7	826.6	823.5
22.5°	817.4	809.3	812.3	808.3	806.2
25°	799.1	790.9	793.0	788.9	785.8
27.5°	777.7	769.5	771.6	767.5	764.4
30°	755.3	747.1	749.1	744.0	743.0
32.5°	730.8	723.7	725.7	723.7	722.6
35°	704.3	698.2	700.2	700.2	699.2
37.5°	676.8	671.7	673.7	675.8	676.8
40°	649.3	644.2	648.2	651.3	651.3
42.5°	619.7	615.6	620.7	623.8	623.8
45°	589.1	586.1	592.2	595.2	596.3
47.5°	557.5	555.5	563.6	565.7	564.7
50°	524.9	523.9	534.1	534.1	532.0
52.5°	492.3	491.3	502.5	501.5	499.4
55°	457.6	458.7	469.9	466.8	464.8
57.5°	424.0	426.0	436.2	432.2	432.2
60°	390.4	393.4	401.6	397.5	396.5
62.5°	356.7	359.8	365.9	361.8	361.8
65°	322.1	327.2	330.2	327.2	324.1
67.5°	287.4	293.5	293.5	291.5	290.5
70°	250.7	257.9	255.8	253.8	252.8
72.5°	218.1	221.2	220.2	218.1	217.1
75°	183.5	185.5	185.5	182.4	181.4
77.5°	149.8	151.9	150.8	148.8	146.8
80°	116.2	118.2	117.2	115.2	114.2
82.5°	84.6	84.6	83.6	81.5	80.5
85°	52.0	54.0	52.0	49.9	48.9
87.5°	24.5	24.5	22.4	21.4	19.4
90°	4.1	7.1	7.1	8.2	6.1
92.5°	14.3	51.0	154.9	40.8	26.5
95°	24.5	81.5	447.4	189.6	118.2
97.5°	38.7	96.8	563.6	374.1	279.3
100°	53.0	122.3	605.4	550.4	418.9
102.5°	66.3	131.5	586.1	749.1	597.3
105°	80.5	133.5	568.7	918.3	797.0
107.5°	94.8	139.6	545.3	1014.1	972.3
110°	109.1	153.9	489.2	1036.6	1085.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	123.3	167.2	447.4	996.8	1115.0
115°	137.6	179.4	423.0	929.5	1085.5
117.5°	150.8	190.6	411.8	860.2	1031.5
120°	164.1	200.8	405.7	797.0	962.2
122.5°	177.3	210.0	404.6	746.1	897.9
125°	189.6	220.2	403.6	704.3	840.9
127.5°	201.8	229.3	399.5	670.7	790.9
130°	214.0	239.5	396.5	642.1	749.1
132.5°	227.3	250.7	391.4	612.6	712.4
135°	239.5	264.0	387.3	583.0	675.8
137.5°	252.8	275.2	381.2	554.5	636.0
140°	267.0	285.4	376.1	524.9	598.3
142.5°	279.3	295.6	374.1	498.4	562.6
145°	290.5	304.8	370.0	471.9	529.0
147.5°	302.7	314.9	369.0	450.5	495.3
150°	313.9	323.1	370.0	433.2	467.8
152.5°	325.1	332.3	372.0	416.9	446.4
155°	335.3	340.4	373.0	407.7	427.1
157.5°	344.5	348.6	374.1	400.6	414.8
160°	353.7	355.7	376.1	396.5	406.7
162.5°	361.8	362.8	378.1	392.4	399.5
165°	369.0	367.9	379.2	389.3	394.4
167.5°	375.1	373.0	381.2	387.3	390.4
170°	380.2	377.1	382.2	385.3	387.3
172.5°	384.3	381.2	383.2	385.3	385.3
175°	387.3	383.2	384.3	384.3	383.2
177.5°	389.3	384.3	384.3	384.3	380.2
180°	384.3	384.3	384.3	384.3	384.3

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