

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: P234613

Luminaire Tested: **CTA-F-5050-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234613
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-5050-40L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

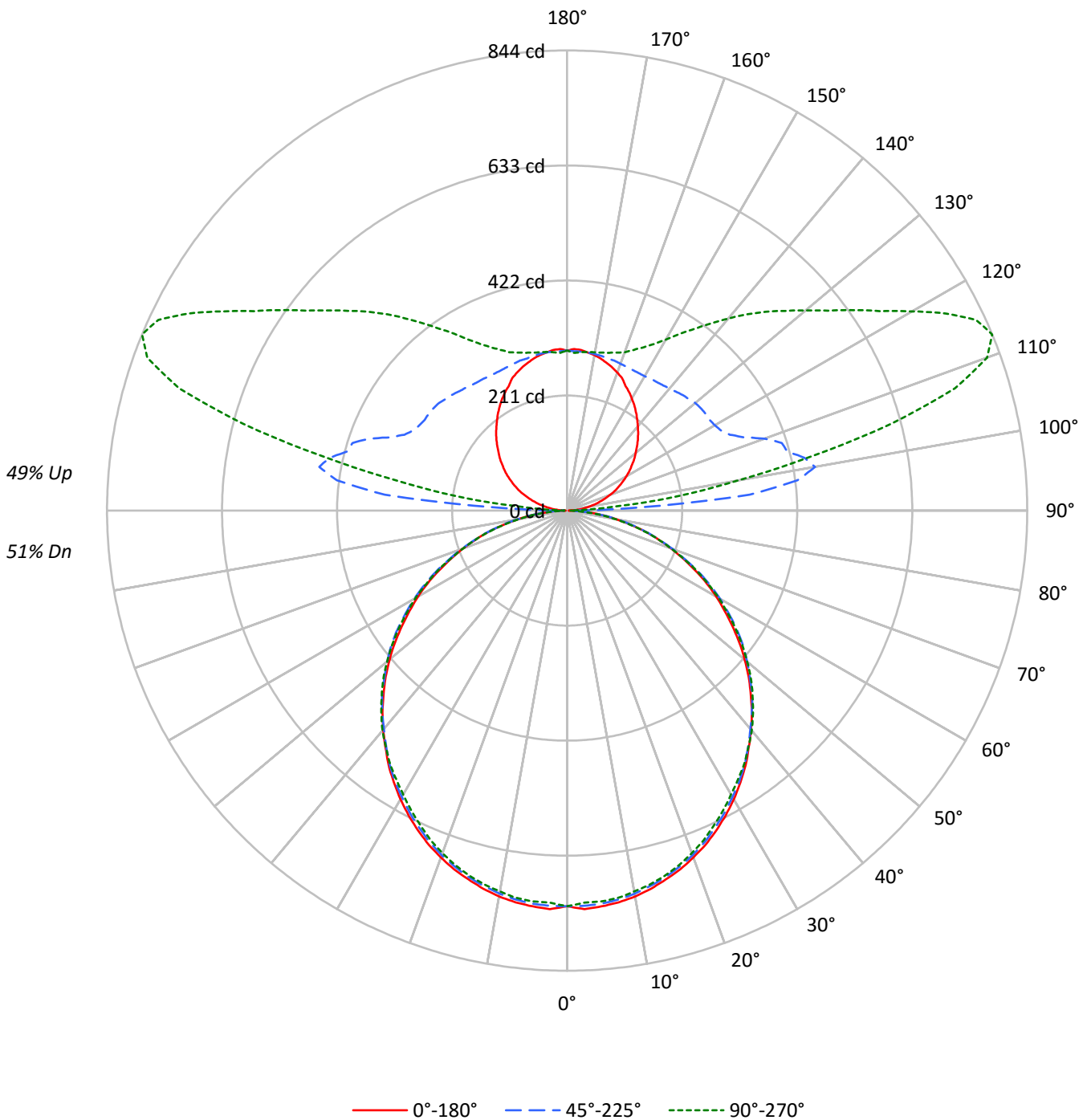
Lumens per Lamp: N/A
Luminaire Lumens: 4050.4 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4686	4686	4686
5°	4724	4691	4665
10°	4712	4679	4652
15°	4681	4654	4634
20°	4651	4623	4595
25°	4612	4575	4539
30°	4560	4522	4484
35°	4500	4475	4468
40°	4425	4408	4442
45°	4347	4385	4394
50°	4270	4331	4331
55°	4166	4281	4246
60°	4081	4186	4147
65°	3956	4065	4019
70°	3829	3888	3829
75°	3688	3713	3663
80°	3410	3447	3336
85°	3023	3023	2719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.7
10°-20°	196.2	4.8
20°-30°	295.3	7.3
30°-40°	354.5	8.8
40°-50°	368.7	9.1
50°-60°	335.4	8.3
60°-70°	260.1	6.4
70°-80°	156.8	3.9
80°-90°	47.0	1.2
90°-100°	157.6	3.9
100°-110°	402.1	9.9
110°-120°	406.6	10.0
120°-130°	318.0	7.9
130°-140°	251.4	6.2
140°-150°	188.9	4.7
150°-160°	133.3	3.3
160°-170°	81.9	2.0
170°-180°	27.9	0.7
0°-30°	560.2	13.8
0°-40°	914.7	22.6
0°-60°	1618.9	40.0
0°-90°	2082.8	51.4
90°-120°	966.3	23.9
90°-150°	1724.5	42.6
90°-180°	1968.0	48.6
0°-180°	4050.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	726	726	726	726	726	
5°	729	722	724	722	720	69
15°	700	694	696	695	693	198
25°	647	640	642	639	637	298
35°	571	566	568	566	567	357
45°	476	474	480	481	481	368
55°	370	371	380	376	377	331
65°	259	262	266	263	263	257
75°	148	151	149	148	147	155
85°	41	43	41	40	37	44
90°	3	6	6	7	5	5
95°	19	60	336	151	96	21
105°	61	109	418	701	616	65
115°	105	140	329	710	828	104
125°	145	171	310	537	641	130
135°	184	201	300	447	516	141
145°	220	231	287	367	407	138
155°	253	258	284	314	330	117
165°	280	280	288	297	300	79
175°	296	292	292	292	292	28
180°	294	294	294	294	294	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	725.7	725.7	725.7	725.7	725.7
2.5°	731.8	724.7	725.7	724.7	719.6
5°	728.7	721.6	723.7	721.6	719.6
7.5°	724.7	717.5	719.6	717.5	716.5
10°	718.6	711.4	713.5	711.4	709.4
12.5°	710.4	703.3	705.3	703.3	702.2
15°	700.2	694.1	696.1	695.1	693.1
17.5°	690.0	682.9	684.9	684.9	681.9
20°	676.8	670.7	672.7	670.7	668.6
22.5°	663.5	656.4	658.4	655.4	654.3
25°	647.2	640.1	642.1	639.1	637.0
27.5°	629.9	622.7	624.8	621.7	619.7
30°	611.5	605.4	606.4	603.4	601.3
32.5°	591.2	586.1	588.1	584.0	584.0
35°	570.8	565.7	567.7	565.7	566.7
37.5°	547.3	543.2	545.3	547.3	546.3
40°	524.9	520.8	522.9	525.9	526.9
42.5°	501.5	497.4	501.5	503.5	504.5
45°	476.0	473.9	480.1	481.1	481.1
47.5°	451.5	448.5	454.6	456.6	457.6
50°	425.0	423.0	431.1	431.1	431.1
52.5°	398.5	397.5	406.7	404.6	404.6
55°	370.0	371.0	380.2	376.1	377.1
57.5°	342.5	343.5	351.6	349.6	348.6
60°	316.0	318.0	324.1	321.1	321.1
62.5°	288.4	290.5	294.6	292.5	291.5
65°	258.9	261.9	266.0	263.0	263.0
67.5°	230.3	234.4	234.4	233.4	232.4
70°	202.8	206.9	205.9	204.9	202.8
72.5°	175.3	179.4	176.3	176.3	175.3
75°	147.8	150.8	148.8	147.8	146.8
77.5°	119.2	122.3	121.3	119.2	117.2
80°	91.7	94.8	92.7	91.7	89.7
82.5°	66.2	68.3	67.3	65.2	63.2
85°	40.8	42.8	40.8	39.7	36.7
87.5°	17.3	19.4	17.3	15.3	13.2
90°	3.1	6.1	6.1	7.1	5.1
92.5°	11.2	40.8	130.5	37.7	24.5
95°	19.4	60.1	336.3	150.8	95.8
97.5°	30.6	73.4	426.0	279.3	208.9
100°	39.7	94.8	461.7	415.8	316.0
102.5°	51.0	106.0	446.4	571.8	458.7
105°	61.2	109.1	417.9	701.2	615.6
107.5°	72.4	112.1	412.8	766.5	746.1
110°	83.6	120.3	385.3	780.7	819.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.8	129.4	350.6	760.3	843.9
115°	105.0	139.6	329.2	710.4	827.6
117.5°	115.2	148.8	318.0	654.3	782.8
120°	125.4	155.9	312.9	608.5	730.8
122.5°	135.6	164.1	309.8	566.7	680.8
125°	144.7	171.2	309.8	537.1	641.1
127.5°	154.9	178.4	308.8	511.7	602.4
130°	164.1	185.5	306.8	490.2	570.8
132.5°	173.3	193.7	302.7	468.8	542.2
135°	183.5	200.8	299.7	447.4	515.7
137.5°	192.6	207.9	295.6	426.0	488.2
140°	201.8	216.1	292.5	405.7	459.7
142.5°	211.0	224.2	289.5	385.3	432.2
145°	220.2	231.4	287.4	366.9	406.7
147.5°	229.3	237.5	286.4	349.6	384.2
150°	237.5	244.6	284.4	335.3	361.8
152.5°	245.6	250.7	284.4	324.1	344.5
155°	252.8	257.9	284.4	313.9	330.2
157.5°	263.0	266.0	285.4	306.8	319.0
160°	269.1	271.1	286.4	301.7	308.8
162.5°	275.2	276.2	288.4	299.7	303.7
165°	280.3	280.3	288.4	296.6	299.7
167.5°	285.4	284.4	290.5	294.6	296.6
170°	289.5	287.4	291.5	294.6	294.6
172.5°	292.5	290.5	292.5	293.5	293.5
175°	295.6	291.5	292.5	292.5	291.5
177.5°	296.6	292.5	292.5	292.5	289.5
180°	293.5	293.5	293.5	293.5	293.5

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