

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: P234533

Luminaire Tested: **CTA-F-0100-20L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234533
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-20L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2097.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

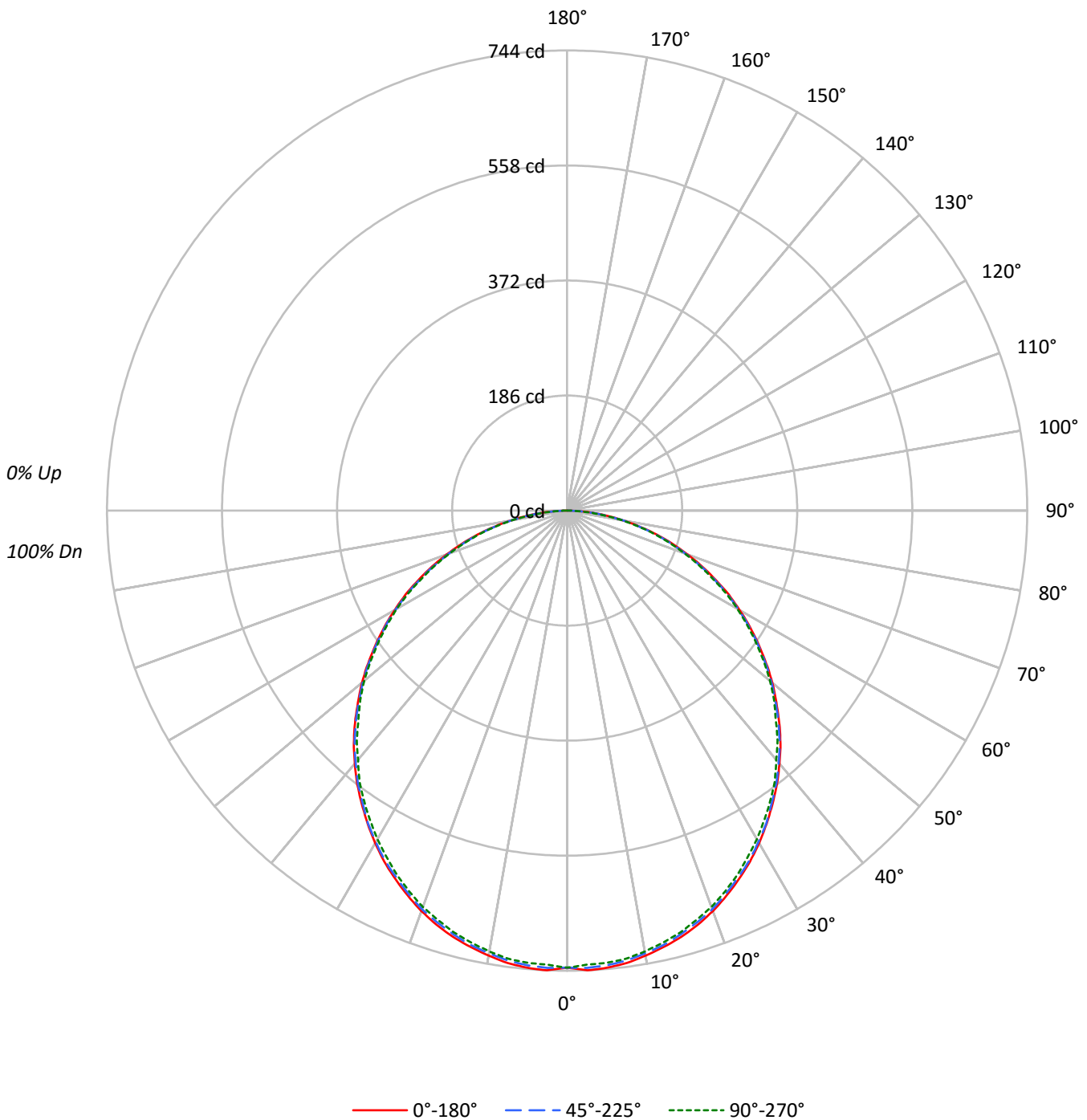
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4772	4772	4772
5°	4810	4783	4757
10°	4792	4765	4746
15°	4770	4743	4722
20°	4735	4714	4686
25°	4684	4662	4634
30°	4628	4614	4576
35°	4564	4548	4516
40°	4503	4485	4433
45°	4431	4412	4356
50°	4352	4331	4301
55°	4257	4234	4200
60°	4160	4133	4107
65°	4049	4002	3956
70°	3907	3848	3810
75°	3738	3663	3638
80°	3451	3410	3336
85°	3097	2867	2645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	3.3
10°-20°	199.8	9.5
20°-30°	300.7	14.3
30°-40°	359.8	17.2
40°-50°	371.3	17.7
50°-60°	335.7	16.0
60°-70°	259.3	12.4
70°-80°	155.7	7.4
80°-90°	44.9	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	570.5	27.2
0°-40°	930.3	44.4
0°-60°	1637.3	78.1
0°-90°	2097.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	742	735	738	736	734	70
15°	714	706	709	708	706	201
25°	657	651	654	650	650	303
35°	579	575	577	572	573	362
45°	485	481	483	478	477	374
55°	378	377	376	372	373	338
65°	265	263	262	260	259	262
75°	150	148	147	147	146	158
85°	42	42	39	37	36	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.9	738.9	738.9	738.9	738.9
2.5°	744.0	736.9	740.0	738.9	734.9
5°	742.0	734.9	737.9	735.9	733.8
7.5°	737.9	730.8	733.8	731.8	730.8
10°	730.8	723.7	726.7	724.7	723.7
12.5°	722.6	715.5	719.6	717.5	715.5
15°	713.5	706.3	709.4	708.4	706.3
17.5°	702.3	695.1	698.2	697.2	694.1
20°	689.0	681.9	685.9	682.9	681.9
22.5°	673.7	667.6	670.7	666.6	666.6
25°	657.4	651.3	654.3	650.3	650.3
27.5°	640.1	634.0	638.0	632.9	631.9
30°	620.7	615.6	618.7	613.6	613.6
32.5°	600.3	596.3	599.3	593.2	593.2
35°	578.9	574.8	576.9	571.8	572.8
37.5°	557.5	553.4	555.5	550.4	551.4
40°	534.1	531.0	532.0	526.9	525.9
42.5°	510.6	506.6	508.6	503.5	503.5
45°	485.2	481.1	483.1	478.0	477.0
47.5°	458.7	457.6	456.6	452.5	453.6
50°	433.2	432.2	431.1	427.1	428.1
52.5°	405.7	404.6	403.6	399.5	400.6
55°	378.1	377.1	376.1	372.0	373.0
57.5°	350.6	349.6	348.6	345.5	345.5
60°	322.1	321.1	320.0	318.0	318.0
62.5°	294.6	293.5	291.5	289.5	289.5
65°	265.0	263.0	261.9	259.9	258.9
67.5°	236.5	233.4	232.4	231.4	230.3
70°	206.9	204.9	203.8	202.8	201.8
72.5°	178.4	176.3	175.3	175.3	173.3
75°	149.8	147.8	146.8	146.8	145.8
77.5°	120.3	121.3	119.3	119.3	117.2
80°	92.8	92.8	91.7	90.7	89.7
82.5°	66.3	67.3	65.2	64.2	62.2
85°	41.8	41.8	38.7	36.7	35.7
87.5°	18.3	17.3	15.3	13.3	11.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)