

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: P234536

Luminaire Tested: **CTA-F-0100-20L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234536
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-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4194.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Direct

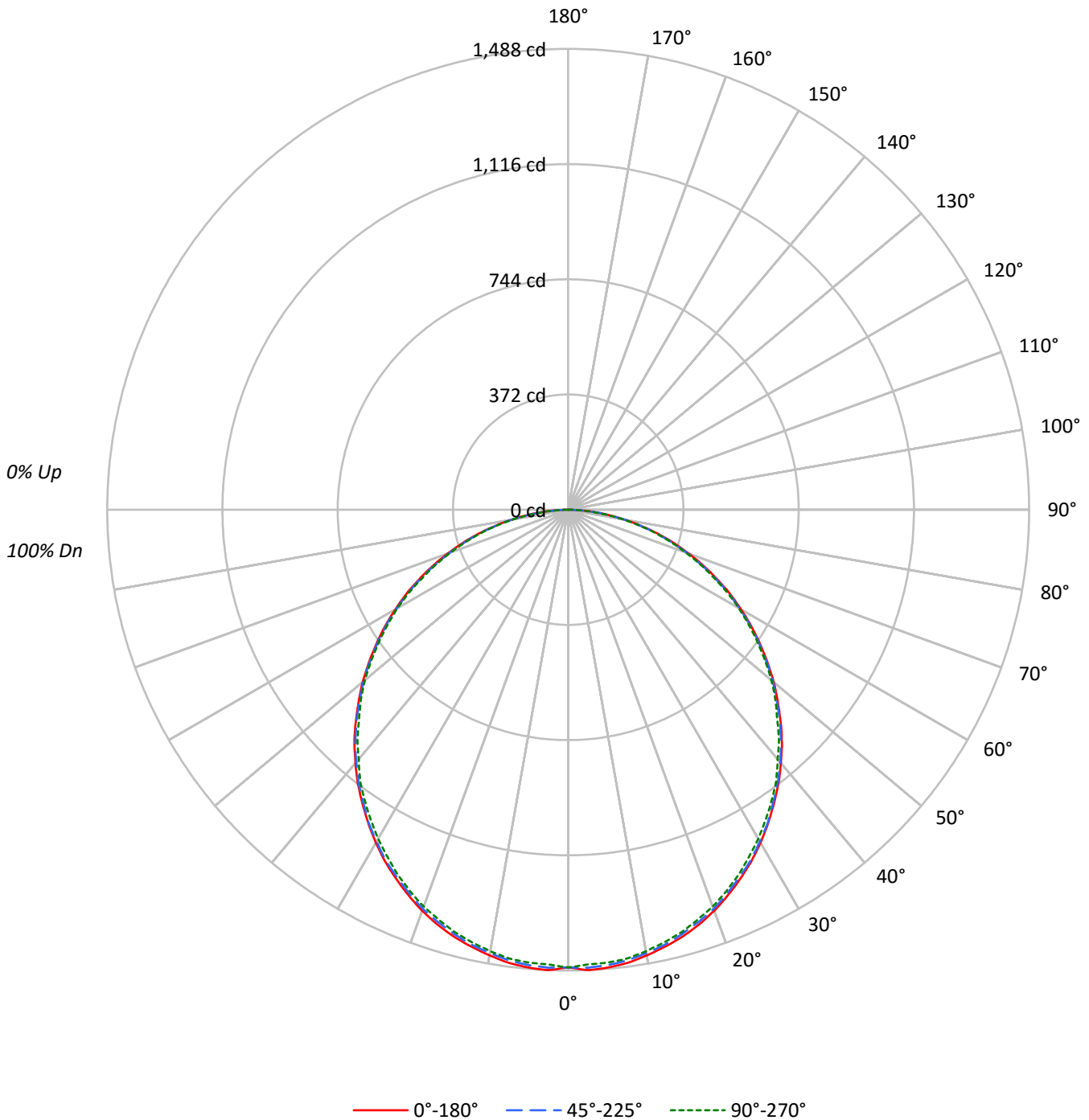
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234536

CATALOG NUMBER: CTA-F-0100-20L840-UNV-8

Luminous Intensity Polar Plot





TEST NUMBER: P234536

CATALOG NUMBER: CTA-F-0100-20L840-UNV-8

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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4772	4772	4772
5°	4810	4783	4757
10°	4792	4765	4745
15°	4770	4743	4722
20°	4735	4714	4686
25°	4684	4663	4633
30°	4628	4613	4576
35°	4564	4548	4516
40°	4503	4485	4433
45°	4431	4412	4356
50°	4352	4332	4301
55°	4258	4234	4200
60°	4160	4134	4107
65°	4049	4003	3956
70°	3907	3849	3810
75°	3739	3662	3637
80°	3449	3412	3336
85°	3097	2871	2641



TEST NUMBER: P234536

CATALOG NUMBER: CTA-F-0100-20L840-UNV-8

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.3
10°-20°	399.7	9.5
20°-30°	601.4	14.3
30°-40°	719.6	17.2
40°-50°	742.5	17.7
50°-60°	671.4	16.0
60°-70°	518.6	12.4
70°-80°	311.4	7.4
80°-90°	89.9	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°	1141.0	27.2
0°-40°	1860.7	44.4
0°-60°	3274.6	78.1
0°-90°	4194.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4194.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1478	1478	1478	1478	1478	
5°	1484	1470	1476	1472	1468	141
15°	1427	1413	1419	1417	1413	402
25°	1315	1303	1309	1300	1300	606
35°	1158	1150	1154	1144	1146	725
45°	970	962	966	956	954	748
55°	756	754	752	744	746	676
65°	530	526	524	520	518	525
75°	300	296	294	294	292	316
85°	84	84	78	73	71	94
90°	0	0	0	0	0	



TEST NUMBER: P234536

CATALOG NUMBER: CTA-F-0100-20L840-UNV-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1477.9	1477.9	1477.9	1477.9	1477.9
2.5°	1488.1	1473.8	1479.9	1477.9	1469.7
5°	1484.0	1469.7	1475.8	1471.8	1467.7
7.5°	1475.8	1461.6	1467.7	1463.6	1461.6
10°	1461.6	1447.3	1453.4	1449.3	1447.3
12.5°	1445.3	1431.0	1439.2	1435.1	1431.0
15°	1426.9	1412.7	1418.8	1416.7	1412.7
17.5°	1404.5	1390.2	1396.3	1394.3	1388.2
20°	1378.0	1363.7	1371.9	1365.8	1363.7
22.5°	1347.4	1335.2	1341.3	1333.2	1333.2
25°	1314.8	1302.6	1308.7	1300.5	1300.5
27.5°	1280.2	1267.9	1276.1	1265.9	1263.8
30°	1241.4	1231.2	1237.3	1227.2	1227.2
32.5°	1200.7	1192.5	1198.6	1186.4	1186.4
35°	1157.8	1149.7	1153.8	1143.6	1145.6
37.5°	1115.0	1106.9	1111.0	1100.8	1102.8
40°	1068.2	1062.0	1064.1	1053.9	1051.8
42.5°	1021.3	1013.1	1017.2	1007.0	1007.0
45°	970.3	962.2	966.2	956.0	954.0
47.5°	917.3	915.3	913.2	905.1	907.1
50°	866.3	864.3	862.3	854.1	856.2
52.5°	811.3	809.3	807.2	799.1	801.1
55°	756.3	754.2	752.2	744.0	746.1
57.5°	701.2	699.2	697.2	691.0	691.0
60°	644.2	642.1	640.1	636.0	636.0
62.5°	589.1	587.1	583.0	578.9	578.9
65°	530.0	525.9	523.9	519.8	517.8
67.5°	472.9	466.8	464.8	462.7	460.7
70°	413.8	409.7	407.7	405.7	403.6
72.5°	356.7	352.7	350.6	350.6	346.5
75°	299.7	295.6	293.5	293.5	291.5
77.5°	240.5	242.6	238.5	238.5	234.4
80°	185.5	185.5	183.5	181.4	179.4
82.5°	132.5	134.5	130.5	128.4	124.3
85°	83.6	83.6	77.5	73.4	71.3
87.5°	36.7	34.7	30.6	26.5	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)