

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: P234549

Luminaire Tested: **CTA-F-0100-40L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-17)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-40L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 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: 4093.2 lumens
Efficiency: N/A
Efficacy: 93.7 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

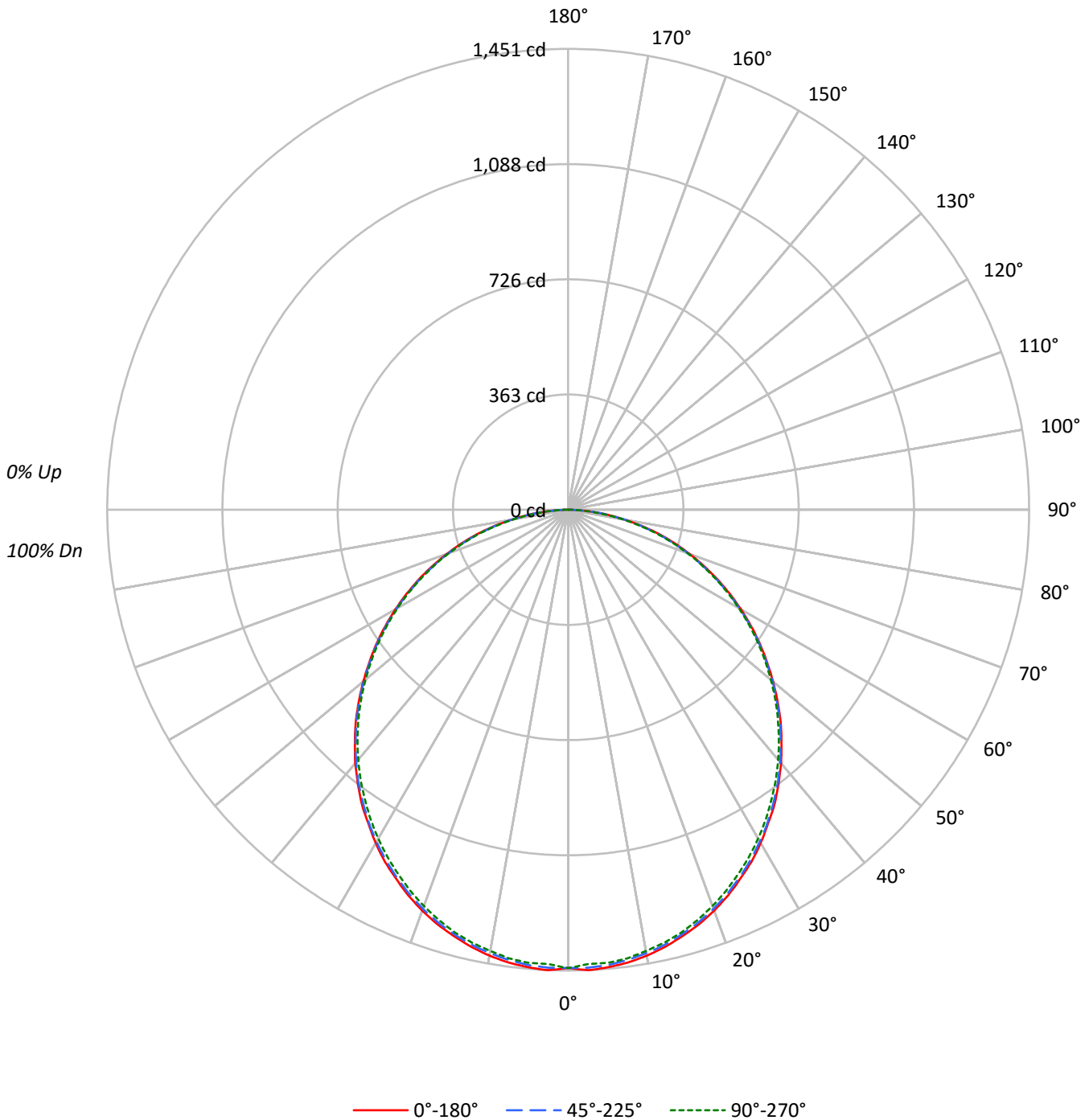
Input Watts (W): 43.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234549

CATALOG NUMBER: CTA-F-0100-40L840-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P234549

CATALOG NUMBER: CTA-F-0100-40L840-UNV-4

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	49
5	75	62	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	44	37	32	43	36	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°	9320	9320	9320
5°	9376	9330	9283
10°	9350	9297	9250
15°	9294	9254	9213
20°	9232	9190	9127
25°	9136	9100	9020
30°	9037	8999	8915
35°	8927	8879	8790
40°	8790	8747	8670
45°	8638	8601	8526
50°	8458	8437	8366
55°	8297	8262	8205
60°	8108	8070	8017
65°	7912	7834	7787
70°	7660	7564	7524
75°	7376	7223	7146
80°	6709	6672	6482
85°	5891	5661	5135



TEST NUMBER: P234549

CATALOG NUMBER: CTA-F-0100-40L840-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	3.3
10°-20°	389.7	9.5
20°-30°	586.5	14.3
30°-40°	701.7	17.1
40°-50°	723.7	17.7
50°-60°	654.2	16.0
60°-70°	507.6	12.4
70°-80°	305.7	7.5
80°-90°	87.5	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°	1112.7	27.2
0°-40°	1814.5	44.3
0°-60°	3192.4	78.0
0°-90°	4093.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4093.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1446	1433	1439	1435	1432	137
15°	1390	1377	1384	1381	1378	392
25°	1282	1271	1277	1269	1266	591
35°	1132	1120	1126	1117	1115	708
45°	946	940	942	933	934	729
55°	737	735	734	728	729	658
65°	518	514	513	510	510	512
75°	296	290	290	288	286	311
85°	80	82	76	72	69	91
90°	0	0	0	0	0	



TEST NUMBER: P234549

CATALOG NUMBER: CTA-F-0100-40L840-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.2	1443.2	1443.2	1443.2	1443.2
2.5°	1451.4	1438.1	1443.2	1441.2	1432.0
5°	1446.3	1433.0	1439.2	1435.1	1432.0
7.5°	1438.1	1424.9	1430.0	1426.9	1424.9
10°	1425.9	1411.6	1417.8	1414.7	1410.6
12.5°	1409.6	1396.3	1403.5	1398.4	1396.3
15°	1390.2	1377.0	1384.1	1381.1	1378.0
17.5°	1368.8	1355.6	1362.7	1359.7	1354.6
20°	1343.3	1330.1	1337.2	1331.1	1328.1
22.5°	1314.8	1301.6	1308.7	1301.6	1298.5
25°	1282.2	1271.0	1277.1	1268.9	1265.9
27.5°	1249.6	1236.3	1243.5	1235.3	1232.3
30°	1211.9	1199.6	1206.8	1196.6	1195.6
32.5°	1171.1	1160.9	1168.0	1158.9	1156.8
35°	1132.4	1120.1	1126.3	1117.1	1115.0
37.5°	1087.5	1077.3	1084.5	1073.3	1073.3
40°	1042.7	1034.5	1037.6	1027.4	1028.4
42.5°	993.8	987.6	990.7	981.5	981.5
45°	945.8	939.7	941.8	932.6	933.6
47.5°	893.9	889.8	890.8	882.7	883.7
50°	841.9	838.8	839.8	831.7	832.7
52.5°	788.9	786.8	785.8	778.7	780.7
55°	736.9	734.9	733.8	727.7	728.8
57.5°	682.9	680.8	678.8	673.7	674.7
60°	627.8	626.8	624.8	620.7	620.7
62.5°	572.8	570.8	567.7	565.7	565.7
65°	517.8	513.7	512.7	509.6	509.6
67.5°	461.7	459.7	456.6	455.6	454.6
70°	405.7	402.6	400.6	399.5	398.5
72.5°	351.6	348.6	345.5	343.5	342.5
75°	295.6	290.5	289.5	288.4	286.4
77.5°	237.5	235.4	233.4	231.4	228.3
80°	180.4	182.4	179.4	176.3	174.3
82.5°	129.4	131.5	126.4	123.3	121.3
85°	79.5	81.5	76.4	72.4	69.3
87.5°	34.7	35.7	28.5	25.5	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)