

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: G2-1709-282-17

Luminaire Tested: **CTA-F-0100-40L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 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-0100-40L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4016.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

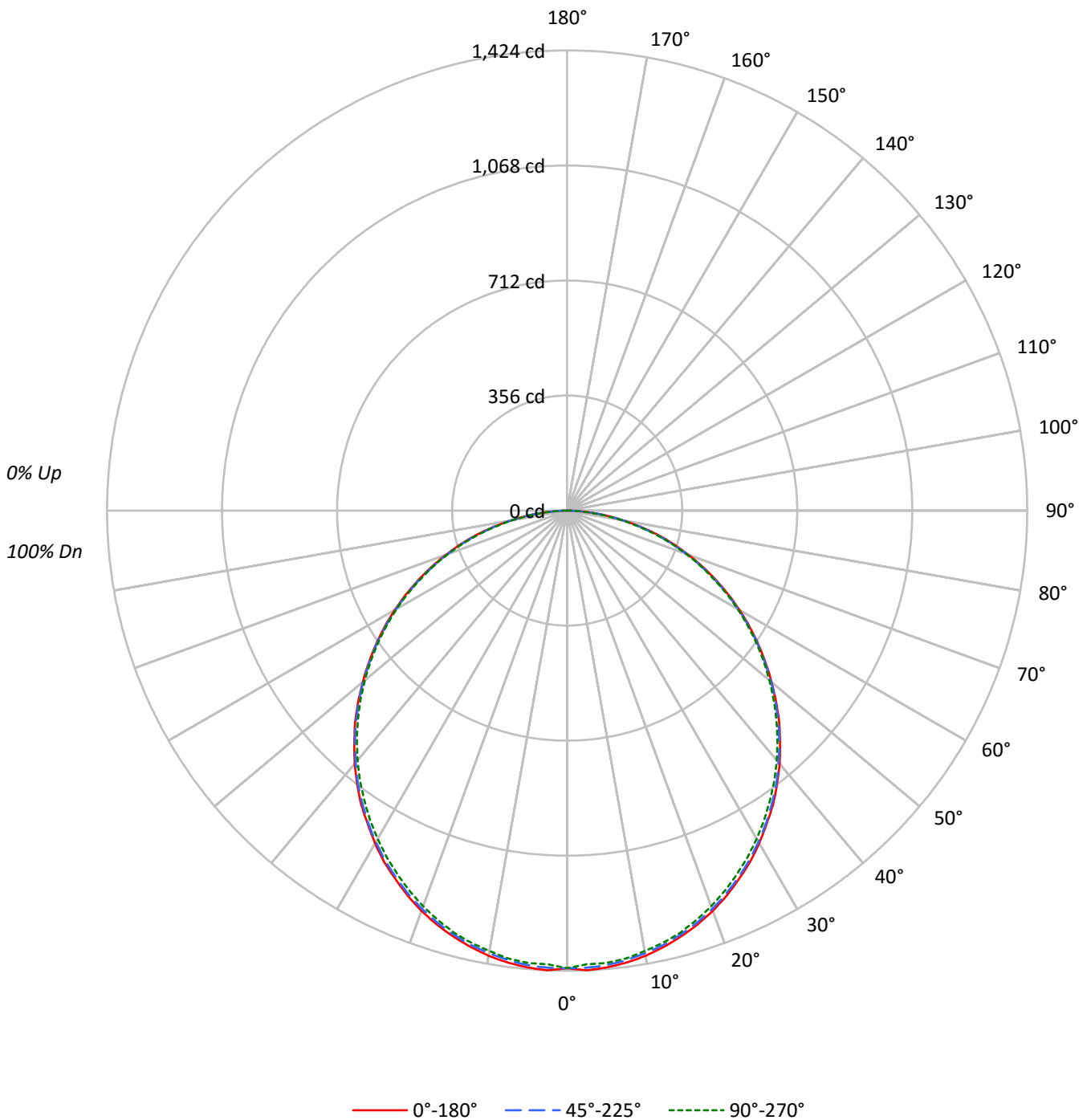
Input Watts (W): 43.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: G2-1709-282-17

CATALOG NUMBER: CTA-F-0100-40L835-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: G2-1709-282-17

CATALOG NUMBER: CTA-F-0100-40L835-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°	9144	9144	9144
5°	9199	9153	9108
10°	9174	9121	9076
15°	9119	9079	9039
20°	9058	9016	8955
25°	8964	8928	8850
30°	8866	8829	8747
35°	8759	8711	8625
40°	8624	8582	8506
45°	8475	8439	8366
50°	8298	8278	8208
55°	8140	8106	8050
60°	7956	7917	7866
65°	7763	7686	7640
70°	7515	7420	7383
75°	7236	7086	7011
80°	6582	6545	6359
85°	5779	5557	5038



TEST NUMBER: G2-1709-282-17

CATALOG NUMBER: CTA-F-0100-40L835-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.3
10°-20°	382.4	9.5
20°-30°	575.5	14.3
30°-40°	688.5	17.1
40°-50°	710.0	17.7
50°-60°	641.9	16.0
60°-70°	498.0	12.4
70°-80°	300.0	7.5
80°-90°	85.9	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°	1091.7	27.2
0°-40°	1780.2	44.3
0°-60°	3132.2	78.0
0°-90°	4016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1419	1406	1412	1408	1405	135
15°	1364	1351	1358	1355	1352	385
25°	1258	1247	1253	1245	1242	580
35°	1111	1099	1105	1096	1094	694
45°	928	922	924	915	916	715
55°	723	721	720	714	715	646
65°	508	504	503	500	500	502
75°	290	285	284	283	281	305
85°	78	80	75	71	68	89
90°	0	0	0	0	0	



TEST NUMBER: G2-1709-282-17

CATALOG NUMBER: CTA-F-0100-40L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416	1416	1416	1416	1416
2.5°	1424	1411	1416	1414	1405
5°	1419	1406	1412	1408	1405
7.5°	1411	1398	1403	1400	1398
10°	1399	1385	1391	1388	1384
12.5°	1383	1370	1377	1372	1370
15°	1364	1351	1358	1355	1352
17.5°	1343	1330	1337	1334	1329
20°	1318	1305	1312	1306	1303
22.5°	1290	1277	1284	1277	1274
25°	1258	1247	1253	1245	1242
27.5°	1226	1213	1220	1212	1209
30°	1189	1177	1184	1174	1173
32.5°	1149	1139	1146	1137	1135
35°	1111	1099	1105	1096	1094
37.5°	1067	1057	1064	1053	1053
40°	1023	1015	1018	1008	1009
42.5°	975	969	972	963	963
45°	928	922	924	915	916
47.5°	877	873	874	866	867
50°	826	823	824	816	817
52.5°	774	772	771	764	766
55°	723	721	720	714	715
57.5°	670	668	666	661	662
60°	616	615	613	609	609
62.5°	562	560	557	555	555
65°	508	504	503	500	500
67.5°	453	451	448	447	446
70°	398	395	393	392	391
72.5°	345	342	339	337	336
75°	290	285	284	283	281
77.5°	233	231	229	227	224
80°	177	179	176	173	171
82.5°	127	129	124	121	119
85°	78	80	75	71	68
87.5°	34	35	28	25	22
90°	0	0	0	0	0

(END OF REPORT)