

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: G2-1709-282-13

Luminaire Tested: **CTA-F-2575-50L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1709-282-13
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-2575-50L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5029.9 lumens
Efficiency: N/A
Efficacy: 105.0 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: Semi-Direct

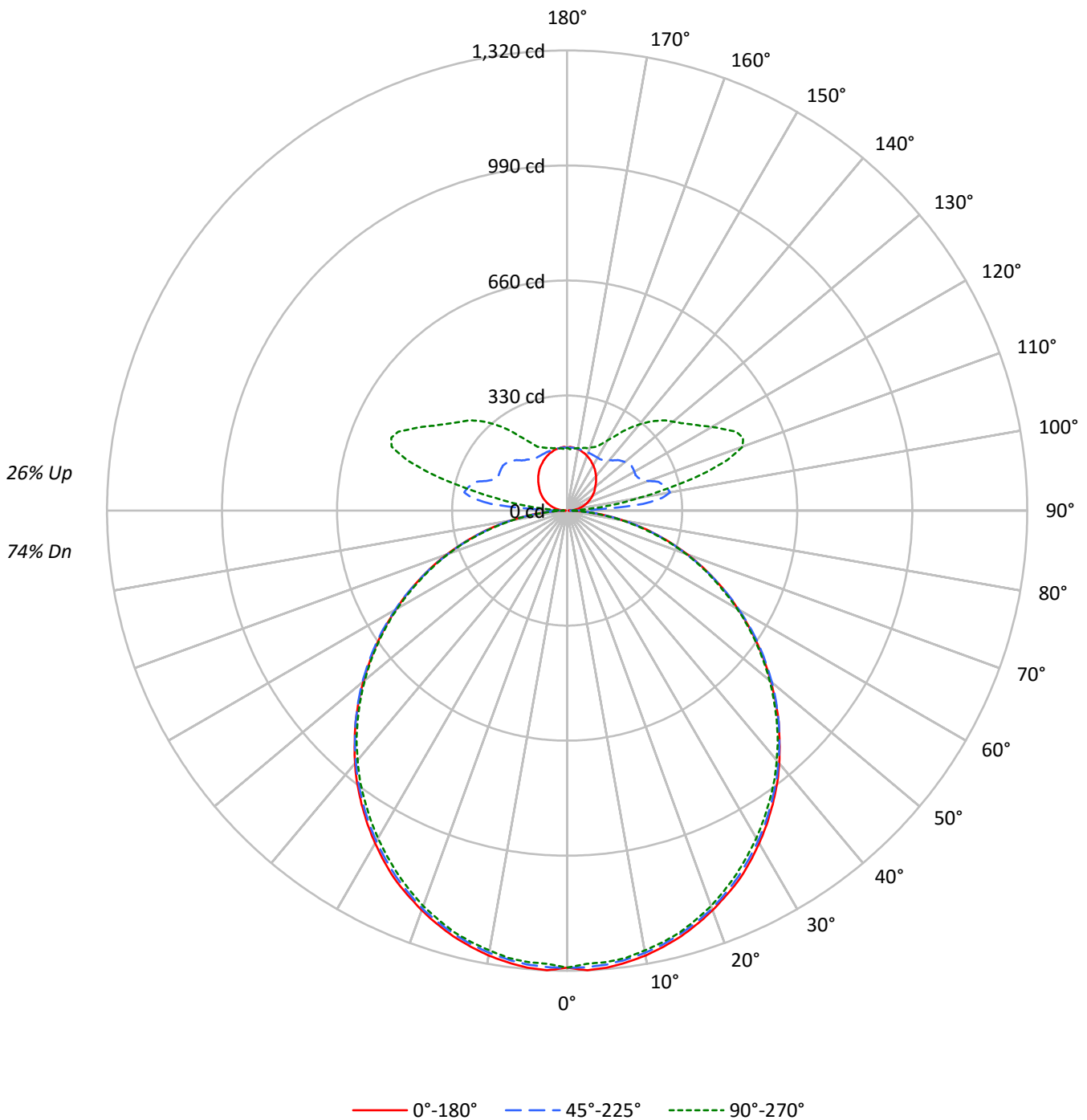
Input Watts (W): 47.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	74
1	103	98	94	90	97	93	90	86	84	82	79	76	74	72	69	67	65	62
2	93	85	79	73	88	81	75	70	74	69	65	67	63	60	60	57	55	51
3	85	75	67	61	80	71	64	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	51	73	63	56	50	57	51	46	52	47	43	47	43	40	37
5	71	59	50	44	67	56	48	43	51	45	40	47	41	37	42	38	34	32
6	66	53	44	38	62	51	43	37	46	40	35	42	37	32	38	34	30	28
7	61	48	39	34	58	46	38	33	42	35	31	38	33	29	35	30	27	24
8	57	44	35	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	24	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	23	33	26	22	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8466	8466	8466
5°	8531	8473	8427
10°	8498	8446	8400
15°	8451	8404	8370
20°	8384	8350	8295
25°	8323	8265	8194
30°	8217	8165	8091
35°	8104	8057	7986
40°	7983	7950	7882
45°	7836	7836	7763
50°	7666	7706	7615
55°	7498	7555	7453
60°	7323	7362	7272
65°	7136	7136	7044
70°	6929	6873	6816
75°	6612	6562	6412
80°	6099	6099	5876
85°	5409	5187	4742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	2.5
10°-20°	354.1	7.0
20°-30°	532.7	10.6
30°-40°	637.7	12.7
40°-50°	658.8	13.1
50°-60°	595.6	11.8
60°-70°	461.2	9.2
70°-80°	277.2	5.5
80°-90°	81.1	1.6
90°-100°	108.8	2.2
100°-110°	265.7	5.3
110°-120°	270.2	5.4
120°-130°	217.9	4.3
130°-140°	171.9	3.4
140°-150°	122.4	2.4
150°-160°	82.8	1.6
160°-170°	50.7	1.0
170°-180°	17.2	0.3
0°-30°	1010.9	20.1
0°-40°	1648.6	32.8
0°-60°	2903.0	57.7
0°-90°	3722.4	74.0
90°-120°	644.7	12.8
90°-150°	1156.9	23.0
90°-180°	1308.0	26.0
0°-180°	5029.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1316	1303	1307	1304	1300	125
15°	1264	1252	1257	1256	1252	356
25°	1168	1155	1160	1153	1150	538
35°	1028	1018	1022	1017	1013	643
45°	858	853	858	853	850	661
55°	666	665	671	665	662	596
65°	467	469	467	463	461	463
75°	265	265	263	261	257	280
85°	73	74	70	66	64	78
90°	4	10	10	10	9	7
95°	17	48	219	109	74	18
105°	46	81	285	452	398	48
115°	71	104	224	461	535	71
125°	95	113	225	369	432	85
135°	117	128	205	316	364	90
145°	140	146	177	242	277	87
155°	159	161	176	194	202	73
165°	173	173	178	185	186	49
175°	182	180	181	181	179	17
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1311	1311	1311	1311	1311
2.5°	1320	1307	1311	1309	1301
5°	1316	1303	1307	1304	1300
7.5°	1307	1295	1299	1297	1294
10°	1296	1284	1288	1285	1281
12.5°	1281	1269	1274	1271	1268
15°	1264	1252	1257	1256	1252
17.5°	1243	1232	1237	1235	1230
20°	1220	1209	1215	1210	1207
22.5°	1194	1182	1188	1182	1179
25°	1168	1155	1160	1153	1150
27.5°	1136	1123	1128	1121	1118
30°	1102	1090	1095	1088	1085
32.5°	1066	1055	1060	1053	1050
35°	1028	1018	1022	1017	1013
37.5°	989	979	984	978	976
40°	947	939	943	937	935
42.5°	902	896	901	896	894
45°	858	853	858	853	850
47.5°	811	807	813	807	804
50°	763	762	767	762	758
52.5°	715	714	719	714	710
55°	666	665	671	665	662
57.5°	617	617	621	615	613
60°	567	568	570	565	563
62.5°	518	518	519	516	511
65°	467	469	467	463	461
67.5°	417	418	415	413	412
70°	367	367	364	363	361
72.5°	316	317	313	311	310
75°	265	265	263	261	257
77.5°	215	214	213	208	207
80°	164	166	164	159	158
82.5°	118	119	116	111	110
85°	73	74	70	66	64
87.5°	31	32	27	24	23
90°	4	10	10	10	9
92.5°	12	33	97	32	24
95°	17	48	219	109	74
97.5°	26	57	274	184	142
100°	33	72	300	267	210
102.5°	39	77	294	366	297
105°	46	81	285	452	398
107.5°	52	86	274	499	481
110°	59	94	248	509	536



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65	100	231	492	546
115°	71	104	224	461	535
117.5°	78	107	221	430	506
120°	83	108	223	402	480
122.5°	89	110	224	384	453
125°	95	113	225	369	432
127.5°	100	114	222	357	412
130°	105	118	217	347	397
132.5°	111	122	211	332	383
135°	117	128	205	316	364
137.5°	123	133	195	299	345
140°	129	137	189	281	322
142.5°	134	142	185	263	300
145°	140	146	177	242	277
147.5°	145	150	175	223	252
150°	150	154	175	212	233
152.5°	154	157	175	198	216
155°	159	161	176	194	202
157.5°	163	164	176	190	197
160°	167	168	177	188	192
162.5°	171	171	178	185	188
165°	173	173	178	185	186
167.5°	177	175	179	182	183
170°	179	177	180	182	182
172.5°	180	180	180	181	180
175°	182	180	181	181	179
177.5°	183	180	181	181	176
180°	180	180	180	180	180

(END OF REPORT)