

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: METALUX

Report Number: P34054

Luminaire Tested: **2BCLED-LD4-28HL-F-UNV-L835-CD1-U**

Test Date: 04/06/15



Test Information

Test Method: LM-79-08
Report Number: P34054
Test Lab: INNOVATION CENTER-P3
Test Date: 04/06/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2BCLED-LD4-28HL-F-UNV-L835-CD1-U
Description: METALUX 2FT BC LED WALL BRACKET CORRIDOR LUMINAIRE WITH A WHITE
Light Source: (112) COOPER LIGHTING 3500K LEDS
Ballast/Driver: (1) ELECTRONIC DRIVER

Summary

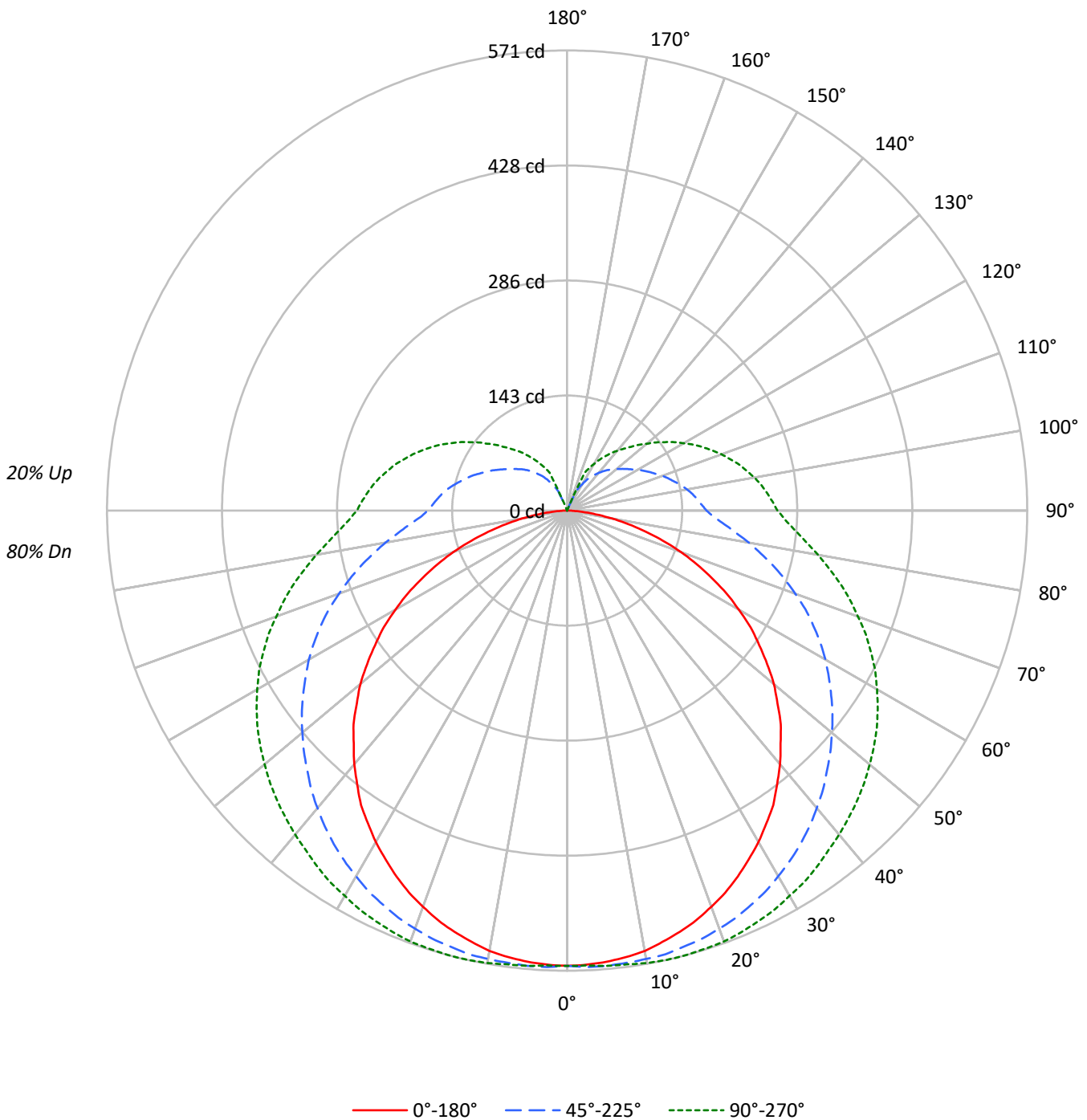
Lumens per Lamp: N/A
Luminaire Lumens: 2809.9 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.46 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 29.1
Input Voltage (V): NR
Input Current (A_{in}): 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	114	114	114	114	109	109	109	109	100	100	100		92	92	92		84	84	84	80
1	101	95	90	85	96	91	86	82	83	79	76		76	73	70		69	67	64	61
2	91	82	74	67	86	78	71	65	71	65	60		65	60	56		59	55	52	48
3	82	71	62	54	78	67	59	53	62	55	49		56	51	46		51	47	43	39
4	75	62	53	45	71	59	51	44	54	47	41		49	43	38		45	40	36	33
5	68	55	45	38	65	53	44	37	48	41	35		44	38	33		40	35	31	28
6	63	49	40	33	60	47	38	32	43	36	30		40	33	28		36	31	27	24
7	58	44	35	29	55	42	34	28	39	32	26		36	30	25		33	28	23	21
8	54	40	31	25	51	39	30	25	36	28	23		33	27	22		30	25	21	19
9	50	37	28	23	48	35	27	22	33	26	21		30	24	20		28	23	19	17
10	47	34	26	20	45	32	25	20	30	23	19		28	22	18		26	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8109	8109	8109
5°	8023	7848	7790
10°	7942	7608	7566
15°	7820	7396	7385
20°	7696	7207	7229
25°	7566	7023	7068
30°	7425	6841	6926
35°	7283	6669	6811
40°	7081	6490	6709
45°	6893	6311	6641
50°	6654	6156	6582
55°	6338	6007	6543
60°	5982	5874	6495
65°	5496	5721	6447
70°	4894	5536	6378
75°	4033	5361	6333
80°	2910	5192	6292
85°	1428	5097	6363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.9
10°-20°	157.9	5.6
20°-30°	247.5	8.8
30°-40°	312.8	11.1
40°-50°	347.6	12.4
50°-60°	350.7	12.5
60°-70°	320.4	11.4
70°-80°	262.5	9.3
80°-90°	196.2	7.0
90°-100°	159.4	5.7
100°-110°	133.4	4.7
110°-120°	103.9	3.7
120°-130°	75.2	2.7
130°-140°	50.0	1.8
140°-150°	29.0	1.0
150°-160°	9.5	0.3
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	459.3	16.3
0°-40°	772.0	27.5
0°-60°	1470.3	52.3
0°-90°	2249.5	80.1
90°-120°	396.7	14.1
90°-150°	550.9	19.6
90°-180°	560.0	19.9
0°-180°	2809.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	565	565	565	565	565	
5°	562	564	567	567	567	53
15°	541	548	560	568	571	153
25°	501	516	540	558	562	231
35°	446	468	505	532	540	278
45°	375	408	456	495	509	288
55°	291	335	400	451	469	260
65°	198	254	337	394	416	196
75°	101	174	265	328	351	107
85°	19	102	196	261	284	24
90°	1	80	173	238	261	2
95°	1	71	162	226	249	0
105°	0	56	138	198	221	0
115°	0	46	113	166	186	0
125°	0	38	90	132	148	0
135°	0	29	71	102	112	0
145°	0	18	51	74	82	0
155°	0	8	27	46	52	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	565	565	565	565	565	565	565	565	565	565	565
2.5°	564	564	564	564	564	565	566	566	566	567	567
5°	562	562	562	562	563	564	565	565	566	567	567
7.5°	559	559	559	559	561	562	563	564	565	566	567
10°	555	555	555	556	557	559	561	562	564	565	567
12.5°	548	549	549	550	552	555	557	559	561	564	565
15°	541	541	542	544	547	549	552	555	558	560	562
17.5°	533	533	534	537	540	543	547	550	553	557	560
20°	523	524	526	529	532	536	540	544	548	552	556
22.5°	513	514	516	519	523	528	533	537	542	547	551
25°	501	502	505	508	513	519	523	530	535	540	545
27.5°	488	489	492	497	503	508	515	521	527	533	538
30°	475	476	479	484	490	497	504	511	518	524	530
32.5°	460	461	466	472	478	486	493	501	509	515	522
35°	446	446	451	457	465	472	481	489	497	505	512
37.5°	428	430	435	442	450	458	468	476	485	494	501
40°	411	413	419	426	435	444	454	463	473	482	490
42.5°	392	395	401	409	419	429	439	450	459	470	478
45°	375	376	383	392	402	413	424	435	446	456	467
47.5°	354	358	364	374	384	396	407	420	431	443	454
50°	335	338	345	355	367	379	391	404	417	429	441
52.5°	313	317	325	336	348	361	374	388	401	415	428
55°	291	295	304	316	328	342	356	371	386	400	414
57.5°	270	274	282	294	309	322	339	354	370	385	399
60°	246	251	260	273	288	303	320	337	354	370	384
62.5°	223	228	237	251	267	284	301	319	337	354	369
65°	198	204	215	229	245	264	283	301	320	337	352
67.5°	174	179	191	207	224	244	264	283	302	320	335
70°	150	155	168	184	203	224	245	264	283	301	318
72.5°	125	131	144	162	183	204	225	246	265	283	300
75°	101	107	122	141	163	185	206	227	247	265	282
77.5°	78	85	100	121	143	165	187	208	228	246	264
80°	56	63	80	101	124	146	169	189	210	229	246
82.5°	36	43	61	83	106	129	151	172	192	211	229
85°	19	27	45	67	90	113	135	157	177	196	213
87.5°	8	15	33	54	77	99	122	143	163	182	200
90°	1	9	25	46	68	91	113	134	155	173	191
92.5°	1	7	22	42	64	86	108	129	149	167	185
95°	1	6	19	38	60	82	103	124	144	162	179
97.5°	0	5	18	35	56	77	98	119	138	157	174
100°	0	5	17	33	52	73	93	114	133	151	168
102.5°	0	5	16	31	49	69	88	108	127	145	161
105°	0	5	15	29	46	65	84	103	121	138	155
107.5°	0	4	15	28	44	61	79	97	116	132	148
110°	0	4	14	27	42	58	75	92	109	126	141



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0	4	13	26	40	55	71	87	104	119	134
115°	0	3	13	25	38	53	67	82	98	113	127
117.5°	0	3	12	24	37	50	64	78	93	107	120
120°	0	3	11	23	35	48	61	74	88	101	113
122.5°	0	2	11	21	33	46	58	71	83	95	107
125°	0	2	10	20	32	44	56	67	79	90	101
127.5°	0	2	9	19	30	41	53	64	75	85	95
130°	0	2	8	17	28	39	50	60	71	80	89
132.5°	0	1	7	16	26	36	47	57	67	76	84
135°	0	1	6	14	24	34	43	53	62	71	79
137.5°	0	1	5	13	22	31	40	49	58	66	74
140°	0	1	4	11	19	28	37	45	54	61	69
142.5°	0	1	4	9	17	24	32	41	49	56	63
145°	0	1	3	8	14	21	29	36	43	51	58
147.5°	1	1	2	6	12	18	25	31	38	45	51
150°	1	0	2	5	9	15	21	27	32	38	45
152.5°	1	1	1	4	8	12	17	23	28	33	38
155°	0	1	1	3	6	9	14	18	23	27	32
157.5°	0	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0	0



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CATALOG NUMBER: 2BCLED-LD4-28HL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	565	565	565	565	565	565	565	565
2.5°	567	566	566	566	565	565	565	565
5°	567	567	567	567	567	567	567	567
7.5°	568	568	568	568	568	568	568	568
10°	568	569	569	570	570	570	570	570
12.5°	567	568	569	570	571	571	571	571
15°	565	567	568	569	570	570	571	571
17.5°	562	565	567	568	569	569	570	570
20°	559	562	564	566	567	568	569	569
22.5°	555	558	561	563	564	566	566	566
25°	549	553	556	559	560	561	562	562
27.5°	543	547	551	553	555	557	558	558
30°	536	540	544	547	550	552	552	552
32.5°	528	534	538	541	544	546	547	547
35°	519	525	530	533	537	539	540	540
37.5°	509	515	520	525	529	531	532	532
40°	498	505	511	516	520	523	525	525
42.5°	487	495	501	507	511	515	516	517
45°	476	484	492	498	502	506	508	509
47.5°	464	473	481	488	493	497	499	500
50°	452	462	470	477	483	487	489	490
52.5°	440	450	459	467	473	477	479	480
55°	426	438	447	455	461	466	468	469
57.5°	413	424	435	443	449	454	457	457
60°	398	410	421	429	436	441	443	444
62.5°	383	395	406	415	422	427	430	431
65°	367	379	390	399	407	411	414	416
67.5°	350	363	374	383	391	396	399	401
70°	333	346	357	366	375	380	383	384
72.5°	316	329	340	350	358	363	367	368
75°	297	311	323	333	340	346	349	351
77.5°	279	293	305	315	323	329	332	333
80°	262	276	288	297	306	311	315	316
82.5°	244	259	271	281	289	295	298	299
85°	229	243	256	266	274	280	284	284
87.5°	216	230	242	253	261	266	270	271
90°	206	221	233	243	251	257	260	261
92.5°	200	214	226	237	245	250	254	255
95°	195	209	221	231	239	245	248	249
97.5°	190	203	215	225	233	238	242	243
100°	183	197	208	218	226	231	235	236
102.5°	176	190	202	211	218	224	227	228
105°	170	183	194	203	211	216	220	221
107.5°	163	176	186	196	203	209	212	212
110°	156	168	179	188	195	200	203	204



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	148	160	170	179	186	191	194	195
115°	140	152	162	170	177	182	185	186
117.5°	133	144	154	162	168	173	176	177
120°	125	136	145	153	159	164	166	167
122.5°	118	128	137	144	150	154	157	158
125°	111	120	129	136	141	145	148	148
127.5°	104	113	121	127	132	136	138	139
130°	98	106	113	119	124	127	129	129
132.5°	92	99	106	111	115	118	120	121
135°	86	93	99	104	107	110	112	112
137.5°	81	87	92	97	100	103	104	104
140°	75	81	86	90	93	95	97	97
142.5°	69	74	79	83	86	88	90	90
145°	63	68	73	76	79	81	82	82
147.5°	57	62	66	69	72	73	75	75
150°	50	55	59	62	64	66	67	67
152.5°	43	48	52	55	57	58	60	60
155°	36	41	45	48	50	51	52	52
157.5°	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0

(END OF REPORT)