

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: P34053

Luminaire Tested: **2BCLED-LD4-24HL-F-UNV-L835-CD1-U**

Test Date: 04/06/15



Test Information

Test Method: LM-79-08
Report Number: P34053
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-LD4-24HL-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: -

Summary

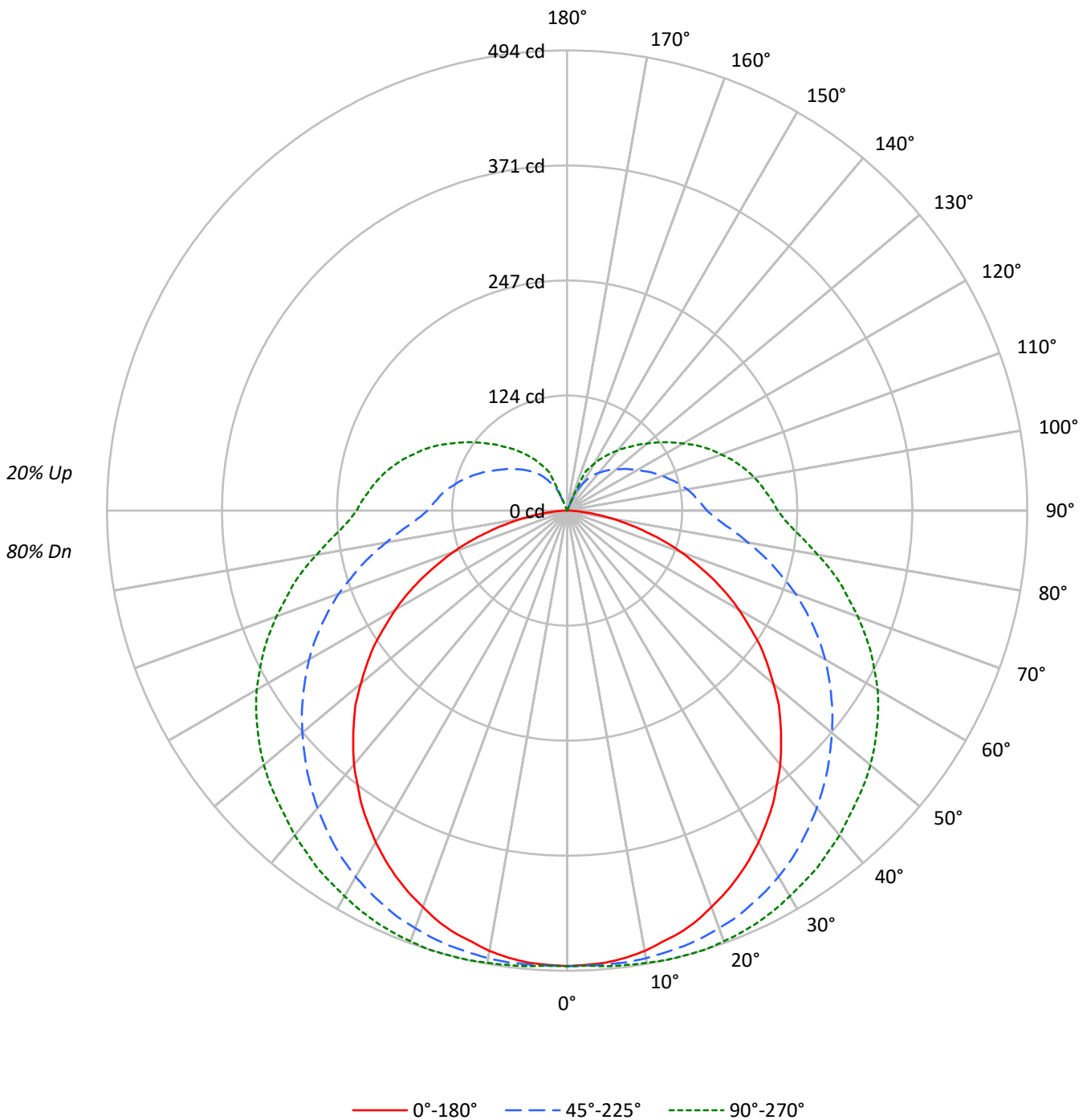
Lumens per Lamp: N/A
Luminaire Lumens: 2430.4 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.46 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 2' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 24.9
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	55	78	68	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	69	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°	7018	7018	7018
5°	6953	6769	6746
10°	6869	6571	6544
15°	6779	6392	6389
20°	6666	6228	6250
25°	6554	6074	6125
30°	6425	5927	5998
35°	6287	5771	5903
40°	6134	5615	5814
45°	5956	5467	5741
50°	5740	5324	5709
55°	5511	5196	5665
60°	5179	5080	5632
65°	4774	4940	5579
70°	4241	4800	5514
75°	3474	4633	5485
80°	2494	4466	5436
85°	1203	4395	5489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	1.9
10°-20°	136.5	5.6
20°-30°	214.2	8.8
30°-40°	270.6	11.1
40°-50°	300.9	12.4
50°-60°	303.5	12.5
60°-70°	277.2	11.4
70°-80°	227.0	9.3
80°-90°	169.5	7.0
90°-100°	137.8	5.7
100°-110°	115.3	4.7
110°-120°	89.9	3.7
120°-130°	64.9	2.7
130°-140°	43.2	1.8
140°-150°	25.1	1.0
150°-160°	8.2	0.3
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	397.3	16.3
0°-40°	667.9	27.5
0°-60°	1272.3	52.4
0°-90°	1946.0	80.1
90°-120°	343.0	14.1
90°-150°	476.2	19.6
90°-180°	484.0	19.9
0°-180°	2430.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	487	488	489	491	491	46
15°	469	474	484	492	494	132
25°	434	446	467	482	487	200
35°	385	406	437	460	468	241
45°	324	352	395	428	440	250
55°	253	290	346	390	406	225
65°	172	220	291	342	360	170
75°	87	150	229	284	304	93
85°	16	87	169	226	245	20
90°	1	69	150	206	226	1
95°	1	60	140	196	215	1
105°	0	48	120	172	191	0
115°	0	39	98	144	161	0
125°	0	32	78	114	128	0
135°	0	24	61	88	97	0
145°	0	15	44	64	71	0
155°	0	6	23	40	45	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°	489	489	489	489	489	489	489	489	489	489	489
2.5°	488	488	488	488	488	489	489	490	490	489	489
5°	487	486	487	487	487	488	489	489	489	489	490
7.5°	484	483	484	484	485	486	487	488	489	489	490
10°	480	480	480	481	482	483	485	487	487	488	489
12.5°	474	474	475	476	478	479	481	483	485	486	488
15°	469	469	470	471	473	475	478	480	482	484	487
17.5°	462	462	463	465	467	470	473	476	479	481	484
20°	453	453	455	457	460	464	467	471	474	477	480
22.5°	444	444	447	449	453	457	461	465	469	473	476
25°	434	435	437	440	444	449	453	458	463	467	471
27.5°	423	424	426	430	435	440	445	451	456	461	466
30°	411	412	415	419	425	430	436	442	448	454	459
32.5°	398	399	403	408	414	420	427	433	440	446	452
35°	385	387	390	396	402	409	416	423	431	437	443
37.5°	370	372	376	382	389	396	404	412	420	427	434
40°	356	357	362	369	376	384	392	401	409	417	425
42.5°	340	342	347	354	362	371	380	389	397	406	414
45°	324	326	332	340	348	357	366	377	386	395	403
47.5°	308	309	315	324	333	343	353	363	373	383	393
50°	289	293	299	307	317	328	339	350	361	371	382
52.5°	271	275	282	291	301	312	323	335	347	359	370
55°	253	256	263	273	284	296	309	321	334	346	359
57.5°	232	237	245	255	267	280	293	306	320	333	346
60°	213	216	225	236	248	262	276	291	306	320	333
62.5°	193	197	206	217	230	245	261	276	291	306	319
65°	172	176	186	198	212	228	244	261	277	291	304
67.5°	150	155	166	179	194	211	228	245	261	276	290
70°	130	134	146	159	176	194	211	229	245	261	275
72.5°	109	114	125	140	158	177	195	212	229	244	259
75°	87	93	105	122	141	160	178	196	213	229	243
77.5°	67	74	87	104	123	143	162	180	197	213	228
80°	48	55	69	87	107	126	145	164	181	197	212
82.5°	31	38	53	72	91	111	130	148	166	183	198
85°	16	24	39	57	77	97	116	135	152	169	184
87.5°	7	13	29	47	66	86	105	124	141	158	173
90°	1	8	22	40	59	79	98	116	133	150	165
92.5°	1	6	19	36	55	74	93	111	128	145	160
95°	1	5	17	33	51	70	89	107	124	140	155
97.5°	1	5	16	31	48	66	85	103	120	136	150
100°	1	5	15	28	45	63	81	98	115	131	145
102.5°	0	4	14	27	42	59	76	93	110	125	139
105°	0	4	13	25	40	56	72	89	105	120	134
107.5°	0	4	13	24	38	53	68	84	100	114	128
110°	0	4	12	23	36	50	65	80	95	109	122



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0	3	12	22	34	47	61	76	89	103	116
115°	0	3	11	22	33	45	58	71	85	98	110
117.5°	0	3	10	20	32	43	55	68	80	92	104
120°	0	2	10	19	30	42	53	64	76	87	98
122.5°	0	2	9	19	29	40	50	61	72	82	93
125°	0	2	9	17	27	38	48	58	68	78	87
127.5°	0	2	8	16	26	35	45	55	64	73	82
130°	0	1	7	15	24	33	43	52	61	69	77
132.5°	0	1	6	14	22	31	40	49	57	65	73
135°	0	1	5	13	20	29	37	46	54	61	68
137.5°	0	1	4	11	19	27	35	43	50	57	64
140°	0	1	4	9	16	24	31	39	46	53	59
142.5°	0	1	3	8	14	21	28	35	42	49	55
145°	0	1	3	7	12	18	25	31	37	44	50
147.5°	0	0	2	5	10	16	21	27	33	39	44
150°	0	0	1	4	8	13	18	23	28	33	39
152.5°	0	0	1	3	7	11	15	19	24	28	33
155°	0	0	1	2	5	8	12	16	20	23	27
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-LD4-24HL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	489	489	489	489	489	489	489	489
2.5°	489	489	490	490	490	489	489	489
5°	490	490	491	491	491	491	490	491
7.5°	490	491	492	492	492	492	492	492
10°	490	491	492	493	493	493	493	493
12.5°	489	490	492	493	493	494	494	494
15°	488	490	492	493	493	494	494	494
17.5°	486	488	490	492	493	493	493	494
20°	483	486	488	490	491	492	492	492
22.5°	479	482	485	487	489	489	490	490
25°	475	478	481	484	485	486	487	487
27.5°	470	473	477	479	481	482	483	483
30°	463	467	471	474	476	477	478	478
32.5°	456	461	465	468	470	472	473	473
35°	449	454	458	462	464	466	467	468
37.5°	440	445	450	454	457	459	461	461
40°	431	437	443	447	450	453	454	455
42.5°	421	428	434	438	442	445	447	447
45°	411	419	425	431	435	438	440	440
47.5°	401	410	417	423	427	431	432	433
50°	391	400	407	414	419	422	424	425
52.5°	380	389	398	404	409	413	415	416
55°	369	379	387	394	399	403	405	406
57.5°	357	368	376	383	388	393	395	396
60°	345	355	364	372	377	381	384	385
62.5°	331	342	351	359	365	369	372	372
65°	317	328	338	346	352	356	359	360
67.5°	303	313	324	332	338	343	346	346
70°	288	299	309	318	324	328	332	332
72.5°	272	284	295	302	309	314	317	317
75°	257	269	279	288	295	299	302	304
77.5°	241	254	264	273	280	284	288	289
80°	226	238	249	258	265	269	272	273
82.5°	211	224	234	243	250	255	258	259
85°	198	210	221	230	236	241	245	245
87.5°	187	199	210	219	225	230	233	234
90°	179	191	201	210	217	222	224	226
92.5°	173	186	196	205	211	216	219	221
95°	169	181	191	200	207	211	214	215
97.5°	164	176	186	195	201	206	209	210
100°	158	170	180	189	195	200	203	204
102.5°	153	164	174	182	189	194	197	198
105°	147	158	168	176	183	187	190	191
107.5°	141	152	161	169	176	180	183	184
110°	134	145	155	163	168	173	176	176



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	128	138	148	155	161	165	168	169
115°	121	131	140	148	153	157	160	161
117.5°	115	124	133	140	146	150	152	153
120°	108	117	126	132	138	141	144	144
122.5°	102	111	118	125	130	133	136	136
125°	96	104	111	117	122	126	127	128
127.5°	90	97	104	110	114	117	119	120
130°	84	91	98	103	107	110	112	112
132.5°	80	86	91	96	100	102	104	105
135°	75	80	85	90	93	95	97	97
137.5°	70	75	80	83	87	89	90	91
140°	65	70	74	78	80	82	84	84
142.5°	60	64	68	72	74	76	77	78
145°	55	59	63	66	68	70	71	71
147.5°	50	54	57	60	62	64	65	65
150°	44	48	51	54	56	57	58	58
152.5°	37	42	45	48	49	51	51	52
155°	31	35	39	41	43	44	45	45
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)