

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: P34247

Luminaire Tested: **4BCLED-LD4-44HL-F-UNV-L835-CD1-U**

Test Date: 06/24/15



Test Information

Test Method: LM-79-08
Report Number: P34247
Test Lab: INNOVATION CENTER-P3
Test Date: 06/24/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U
Description: METALUX 4FT BC LED WALL BRACKET CORRIDOR LUMINAIRE WITH A WHITE ACRYLIC CREPE LENS.
Light Source: -
Ballast/Driver: -

Summary

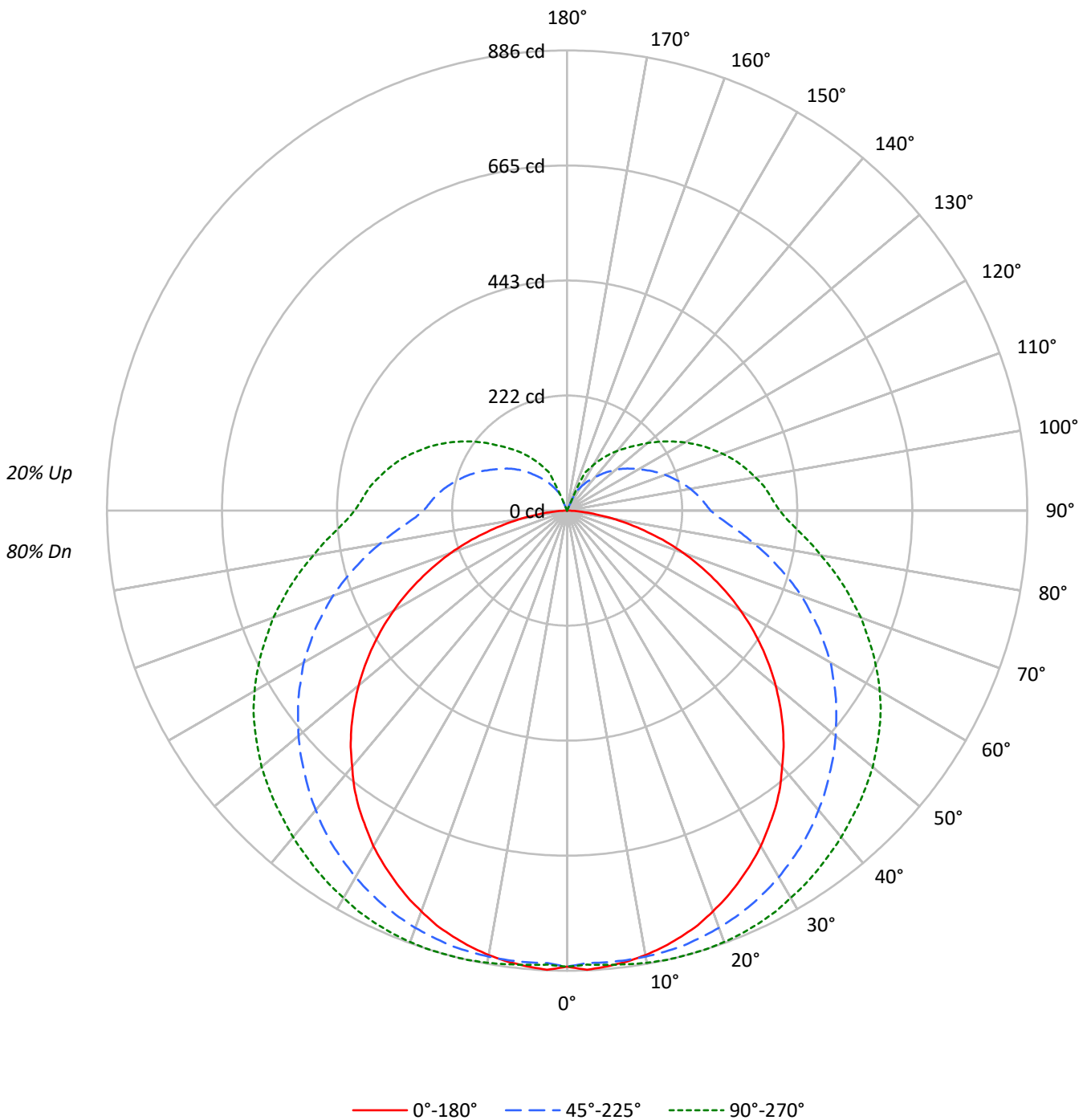
Lumens per Lamp: N/A
Luminaire Lumens: 4410.9 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.47 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 46.6
Input Voltage (V): 277.0
Input Current (Ain): 0.174
Voltage Rise (V): NR
Power Factor: 0.9748
Total Harmonic Distortion (THDi): 15.2%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 5 HR
Ambient Temperature (°C): 25.0
Test Distance: 25 FT

TEST NUMBER: P34247

CATALOG NUMBER: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P34247

CATALOG NUMBER: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

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	81	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	50	46	51	46	43	39
4	75	62	52	45	71	59	50	44	54	47	41	49	43	38	45	40	36	33
5	68	55	45	38	65	52	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	27	23	21
8	54	40	31	25	51	39	30	25	36	28	23	33	27	22	30	25	21	18
9	50	37	28	23	48	35	27	22	33	26	21	30	24	20	28	22	19	16
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°	6300	6300	6300
5°	6317	6061	6031
10°	6274	5906	5867
15°	6220	5776	5729
20°	6153	5646	5615
25°	6076	5528	5509
30°	6001	5411	5402
35°	5908	5300	5317
40°	5780	5185	5245
45°	5662	5075	5193
50°	5508	4984	5158
55°	5322	4900	5120
60°	5081	4822	5083
65°	4765	4719	5036
70°	4368	4619	4999
75°	3714	4494	4962
80°	2839	4389	4938
85°	1497	4360	5007



TEST NUMBER: P34247

CATALOG NUMBER: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.9
10°-20°	245.8	5.6
20°-30°	386.2	8.8
30°-40°	489.3	11.1
40°-50°	545.6	12.4
50°-60°	551.8	12.5
60°-70°	505.7	11.5
70°-80°	416.2	9.4
80°-90°	311.6	7.1
90°-100°	252.1	5.7
100°-110°	211.0	4.8
110°-120°	164.1	3.7
120°-130°	117.2	2.7
130°-140°	75.1	1.7
140°-150°	42.0	1.0
150°-160°	13.4	0.3
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	715.8	16.2
0°-40°	1205.0	27.3
0°-60°	2302.4	52.2
0°-90°	3536.0	80.2
90°-120°	627.2	14.2
90°-150°	861.5	19.5
90°-180°	875.0	19.8
0°-180°	4410.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	881	879	873	880	878	84
15°	849	857	867	885	886	240
25°	786	808	838	869	876	363
35°	699	736	787	831	843	437
45°	587	643	715	776	796	453
55°	457	530	632	709	734	408
65°	312	406	534	622	650	309
75°	160	280	422	517	550	171
85°	29	163	313	412	447	37
90°	1	129	276	375	409	2
95°	1	114	259	356	389	1
105°	1	89	221	314	345	1
115°	1	72	180	263	292	1
125°	1	56	141	208	232	1
135°	1	39	103	157	174	1
145°	1	25	68	111	126	1
155°	1	12	38	61	79	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P34247

CATALOG NUMBER: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	878	878	878	878	878	878	878	878	878	878	878
2.5°	885	883	881	880	881	881	881	880	878	875	872
5°	881	880	878	878	879	879	879	879	877	875	873
7.5°	876	876	874	873	876	876	877	877	876	874	873
10°	869	868	867	868	870	872	872	874	873	872	872
12.5°	860	860	859	860	863	865	867	868	869	869	870
15°	849	849	848	851	855	857	859	862	863	865	867
17.5°	837	836	836	840	845	847	850	854	856	859	861
20°	821	821	822	827	833	836	839	844	847	851	855
22.5°	805	805	806	812	819	823	827	832	837	842	847
25°	786	787	789	795	804	808	812	819	825	831	838
27.5°	767	767	771	778	788	792	797	805	813	819	827
30°	746	746	751	759	770	776	780	789	798	806	815
32.5°	722	723	729	738	750	756	762	772	782	792	801
35°	699	700	706	716	729	736	742	754	765	776	787
37.5°	673	675	681	693	707	715	721	734	746	758	771
40°	644	648	656	668	684	692	699	712	726	739	753
42.5°	617	620	628	642	659	668	675	690	704	719	735
45°	587	591	600	616	634	643	651	667	682	699	715
47.5°	556	560	573	588	607	616	625	642	660	677	696
50°	524	529	541	559	578	588	598	617	636	655	675
52.5°	491	497	509	528	550	560	570	591	611	632	653
55°	457	464	477	497	519	530	542	564	586	609	632
57.5°	422	429	444	465	487	501	511	535	560	585	608
60°	386	394	410	431	455	469	481	508	533	560	586
62.5°	350	359	374	397	423	438	450	478	507	535	559
65°	312	321	338	362	391	406	420	449	479	507	534
67.5°	275	284	303	327	358	374	388	420	451	480	506
70°	238	247	266	293	325	342	359	391	423	451	480
72.5°	200	208	231	259	293	311	327	361	393	423	451
75°	160	171	193	226	261	280	296	331	363	394	422
77.5°	124	135	160	193	229	249	265	301	334	364	394
80°	89	101	127	162	198	219	235	272	305	336	365
82.5°	56	71	98	133	171	190	207	244	277	309	339
85°	29	43	72	109	145	163	182	218	253	284	313
87.5°	10	24	53	88	124	144	162	197	231	263	292
90°	1	14	41	74	110	129	146	182	215	247	276
92.5°	0	11	36	68	103	121	138	174	207	238	267
95°	1	9	32	62	96	114	131	166	199	230	259
97.5°	1	8	28	57	90	107	124	158	191	222	250
100°	1	8	26	53	84	101	117	150	182	212	241
102.5°	1	8	25	49	79	95	110	142	174	203	231
105°	1	7	24	47	74	89	104	134	165	194	221
107.5°	1	7	23	45	69	83	98	127	156	184	211
110°	1	6	22	43	66	79	92	120	148	175	201



TEST NUMBER: P34247

CATALOG NUMBER: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1	6	21	41	63	75	87	113	139	165	190
115°	1	5	20	39	60	72	83	106	131	156	180
117.5°	1	4	19	37	58	68	79	101	124	146	169
120°	1	4	17	35	55	65	75	96	117	138	159
122.5°	1	3	16	32	51	61	71	91	110	130	150
125°	1	3	14	29	47	56	66	85	104	122	141
127.5°	1	2	12	27	43	52	60	78	96	114	132
130°	1	2	11	24	39	47	55	72	88	105	122
132.5°	1	1	9	22	36	43	51	66	81	97	112
135°	1	1	8	19	32	39	46	60	74	88	103
137.5°	1	1	7	17	29	35	42	55	67	81	93
140°	1	1	6	14	26	31	37	49	61	73	84
142.5°	1	1	5	13	22	28	33	44	55	65	76
145°	1	1	4	11	19	25	29	39	48	58	68
147.5°	1	1	3	9	17	21	26	34	43	51	60
150°	1	1	2	7	14	18	22	30	37	44	52
152.5°	1	1	2	6	12	15	18	26	32	38	45
155°	1	1	1	4	9	12	15	21	27	33	38
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: 4BCLED-LD4-44HL-F-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	878	878	878	878	878	878	878	878	878	878
2.5°	873	875	877	877	877	877	877	876	875	875
5°	874	876	878	879	880	880	880	879	879	878
7.5°	874	878	881	882	882	882	883	883	882	881
10°	874	878	882	884	884	884	885	885	885	884
12.5°	873	878	882	884	885	886	887	887	886	886
15°	870	876	881	884	885	886	887	887	887	886
17.5°	866	873	878	882	883	884	886	887	886	886
20°	861	869	875	879	880	882	884	885	885	884
22.5°	854	863	869	874	876	878	880	882	882	881
25°	846	855	862	867	869	871	875	876	877	876
27.5°	836	846	853	860	862	864	868	870	870	870
30°	825	836	844	850	853	855	859	862	862	861
32.5°	813	824	832	840	842	845	850	852	853	853
35°	799	810	820	827	831	834	839	842	843	843
37.5°	783	796	806	814	818	822	827	830	832	832
40°	767	780	791	801	805	809	815	819	820	821
42.5°	749	764	776	786	790	795	801	806	807	808
45°	732	746	760	771	776	781	788	793	795	796
47.5°	713	730	743	756	762	766	774	779	781	782
50°	694	710	726	739	745	750	758	764	767	768
52.5°	674	692	709	723	728	734	742	748	751	751
55°	653	671	689	703	709	715	724	730	733	734
57.5°	630	650	668	683	690	696	705	711	715	716
60°	607	629	645	661	668	674	685	690	695	695
62.5°	583	604	623	639	645	652	661	669	672	673
65°	558	580	598	615	622	628	638	645	650	650
67.5°	531	553	572	589	597	602	613	621	624	625
70°	505	527	547	563	571	577	588	595	600	602
72.5°	477	499	520	537	544	551	562	571	574	575
75°	448	471	493	510	517	524	535	543	548	550
77.5°	419	444	464	482	491	497	508	517	521	523
80°	392	415	437	455	462	470	482	490	495	496
82.5°	365	389	411	430	437	444	456	464	469	472
85°	340	364	386	404	412	419	432	440	445	447
87.5°	318	343	364	383	391	398	409	418	423	425
90°	303	326	348	366	375	382	393	402	407	409
92.5°	293	317	339	357	365	372	383	392	397	398
95°	285	309	330	348	356	363	375	383	388	389
97.5°	276	300	321	339	347	354	365	373	378	380
100°	267	290	310	328	336	343	354	362	367	368
102.5°	257	280	300	318	325	332	343	351	356	357
105°	247	269	289	306	314	321	331	339	344	345
107.5°	236	258	278	295	302	308	319	327	332	333
110°	224	246	266	282	289	296	306	314	318	319



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	213	234	253	270	277	282	293	300	304	305
115°	202	222	241	257	263	269	279	286	290	292
117.5°	191	210	227	243	250	256	265	272	276	277
120°	179	198	215	229	236	241	251	258	261	262
122.5°	168	186	202	216	222	228	237	243	247	247
125°	158	175	189	203	208	213	222	227	231	232
127.5°	148	163	177	189	194	199	207	213	216	217
130°	138	152	165	176	181	186	193	198	201	202
132.5°	128	142	154	164	169	173	179	184	187	187
135°	116	131	144	153	157	161	167	171	173	174
137.5°	106	119	132	142	146	149	155	158	161	161
140°	96	108	120	132	135	138	143	147	149	150
142.5°	86	97	108	119	124	127	132	135	137	138
145°	77	86	96	106	111	116	121	123	125	126
147.5°	68	76	85	93	98	103	110	112	113	114
150°	59	66	73	81	85	89	98	100	102	102
152.5°	51	57	63	69	72	76	85	89	89	90
155°	42	48	53	58	61	64	71	77	78	79
157.5°	0	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)