

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: 110P101

Luminaire Tested: **BAUB-240**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: 110P101  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: BAUB-240  
Description: Wall Bracket with pattern 12 downlight lens and  
translucent white uplight lens.  
Light Source: Two-F40CW - 3150 Lumens ea. - 40 Watts ea.  
Ballast/Driver: -

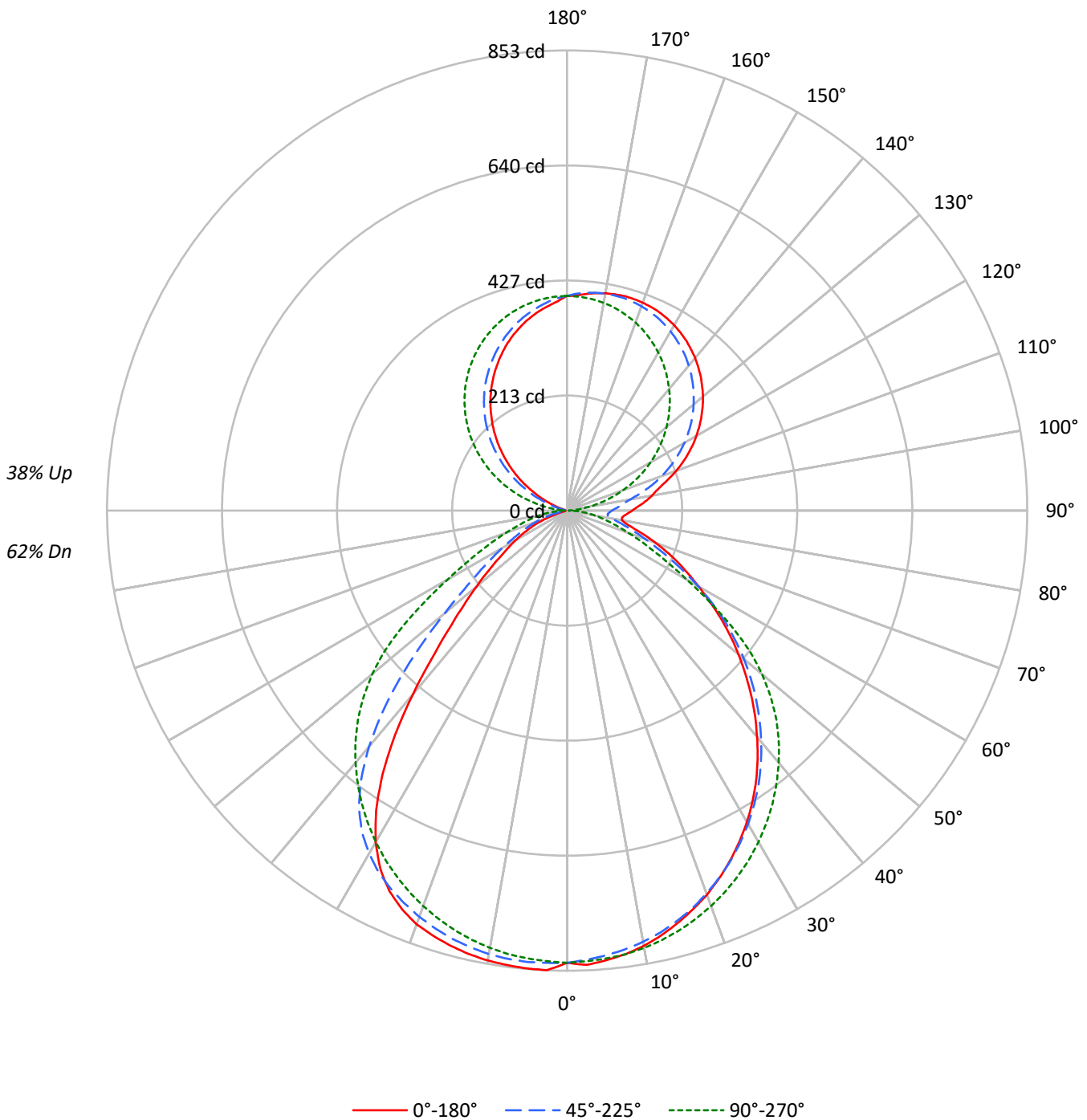
**Summary**

Lumens per Lamp: 3150 (2 lamps)  
Luminaire Lumens: 3140.2 lumens  
Efficiency: 49.8%  
Efficacy: 37.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.3  
Luminous Opening: Rectangular (W 3.99' x L: 0.42' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 82.9  
Input Voltage (V): NR  
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	55	55	55	55	51	51	51	51	45	45	45	39	39	39	34	34	34	31
1	50	48	46	45	47	45	44	42	40	38	37	35	34	33	30	29	29	26
2	46	42	39	37	43	40	37	35	35	33	31	31	29	28	27	26	25	23
3	42	38	34	31	39	35	32	30	31	29	27	28	26	24	24	23	21	20
4	39	34	30	27	36	32	28	25	28	25	23	25	23	21	22	20	19	17
5	36	30	26	23	33	28	25	22	25	22	20	22	20	18	20	18	16	15
6	33	27	23	20	31	26	22	19	23	20	18	20	18	16	18	16	15	13
7	31	25	21	18	29	23	20	17	21	18	16	19	16	14	16	15	13	12
8	28	22	19	16	27	21	18	15	19	16	14	17	15	13	15	13	12	11
9	27	21	17	14	25	19	16	14	18	15	13	16	13	12	14	12	11	10
10	25	19	15	13	23	18	15	12	16	13	12	15	12	11	13	11	10	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	5424	5424	5424
5°	5433	5412	5532
10°	5382	5408	5564
15°	5300	5393	5593
20°	5216	5371	5618
25°	5107	5339	5558
30°	4979	5298	5302
35°	4825	5240	4712
40°	4625	5153	3758
45°	4411	5017	2816
50°	4170	4746	2208
55°	3916	4169	1749
60°	3640	3311	1431
65°	3457	2703	1133
70°	3289	2272	715
75°	3187	2027	97
80°	3852	1930	112
85°	7890	1974	223



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	79.3	2.5	1.3	0°	838	838	838	838	838	
10°-20°	227.3	7.2	3.6	5°	837	828	833	840	852	79
20°-30°	342.7	10.9	5.4	15°	791	788	805	822	835	223
30°-40°	397.4	12.7	6.3	25°	715	717	748	774	779	329
40°-50°	360.6	11.5	5.7	35°	611	619	664	673	597	381
50°-60°	261.7	8.3	4.2	45°	482	496	548	436	308	372
60°-70°	156.6	5.0	2.5	55°	347	356	370	200	155	310
70°-80°	78.3	2.5	1.2	65°	226	209	177	94	74	224
80°-90°	45.6	1.5	0.7	75°	128	113	81	32	4	139
90°-100°	52.5	1.7	0.8	85°	106	75	27	9	3	86
100°-110°	89.8	2.9	1.4	90°	121	83	3	6	3	66
110°-120°	144.3	4.6	2.3	95°	139	98	15	3	3	118
120°-130°	187.9	6.0	3.0	105°	182	152	75	14	4	195
130°-140°	207.2	6.6	3.3	115°	247	220	145	71	47	244
140°-150°	198.9	6.3	3.2	125°	304	280	210	141	115	272
150°-160°	164.3	5.2	2.6	135°	350	330	268	208	184	270
160°-170°	108.1	3.4	1.7	145°	385	369	317	268	248	241
170°-180°	37.7	1.2	0.6	155°	405	395	356	319	303	187
0°-30°	649.3	20.7	10.3	165°	412	408	382	360	348	116
0°-40°	1046.7	33.3	16.6	175°	403	405	396	389	382	39
0°-60°	1669.0	53.2	26.5	180°	398	398	398	398	398	
0°-90°	1949.6	62.1	30.9							
90°-120°	286.5	9.1	4.5							
90°-150°	880.5	28.0	14.0							
90°-180°	1191.0	37.9	18.9							
0°-180°	3140.2	100.0	49.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	838.4	838.4	838.4	838.4	838.4	838.4	838.4	838.4	838.4
2.5°	843.0	832.3	833.4	833.3	836.0	836.5	839.2	840.7	852.7
5°	836.6	825.4	827.6	829.1	833.4	835.7	839.8	842.2	851.9
7.5°	829.4	818.0	820.5	822.9	829.4	833.1	838.4	840.8	849.9
10°	819.3	808.0	811.7	815.2	823.2	828.7	834.8	837.6	847.0
12.5°	806.6	794.9	800.8	805.9	815.0	822.2	829.0	833.1	841.9
15°	791.4	780.6	787.5	794.5	805.2	813.6	821.9	826.2	835.1
17.5°	775.2	764.3	772.7	781.6	793.3	803.0	812.3	817.5	826.4
20°	757.7	746.8	755.2	766.3	780.2	790.9	801.2	807.0	816.1
22.5°	737.3	726.8	736.7	749.8	764.9	777.3	788.1	794.2	800.0
25°	715.4	705.1	716.6	731.1	748.0	761.7	773.5	775.8	778.7
27.5°	691.9	681.8	694.4	710.7	729.7	744.1	756.1	752.8	749.7
30°	666.5	657.2	670.7	688.4	709.2	724.5	734.0	721.5	709.7
32.5°	639.4	630.5	645.4	664.2	687.1	703.2	707.5	680.4	659.3
35°	610.9	603.0	618.8	639.1	663.5	679.5	672.9	630.2	596.6
37.5°	580.1	573.2	590.1	611.9	637.5	652.2	627.2	569.1	523.7
40°	547.6	542.4	559.7	582.7	610.2	619.8	571.8	495.7	445.0
42.5°	515.7	510.0	528.2	551.9	580.6	580.4	506.6	415.8	369.8
45°	482.1	477.0	495.5	519.6	548.4	534.0	435.9	340.1	307.8
47.5°	447.9	443.6	462.2	484.8	512.0	477.0	362.4	277.3	260.0
50°	414.3	410.2	427.6	448.7	471.6	412.1	295.8	229.1	219.4
52.5°	381.1	376.0	391.4	410.3	425.5	343.6	241.3	193.5	184.4
55°	347.2	342.1	355.8	369.6	369.6	281.1	199.6	164.0	155.1
57.5°	312.7	308.2	318.4	325.2	309.6	228.7	166.6	137.9	130.5
60°	281.3	276.1	280.4	278.1	255.9	188.8	138.4	116.3	110.6
62.5°	252.8	245.9	243.4	232.5	211.7	156.6	114.3	96.3	92.2
65°	225.8	218.5	209.3	192.4	176.6	128.4	94.2	78.5	74.0
67.5°	199.8	191.9	179.4	158.8	146.7	105.3	77.3	62.2	56.6
70°	173.9	165.7	153.6	131.3	120.1	87.0	62.1	46.4	37.8
72.5°	149.5	140.9	131.5	109.1	98.7	71.9	47.2	28.6	19.1
75°	127.5	119.1	112.8	91.0	81.1	56.7	32.5	14.1	3.9
77.5°	111.2	101.5	96.6	76.9	65.3	41.7	15.7	7.1	3.0
80°	103.4	93.5	82.7	64.7	51.8	27.2	6.6	7.7	3.0
82.5°	102.4	92.8	76.4	53.5	39.5	10.5	6.9	9.0	3.0
85°	106.3	97.0	75.3	43.6	26.6	5.0	8.8	11.9	3.0
87.5°	113.4	104.2	78.2	39.5	12.9	6.2	10.4	12.6	3.0
90°	120.7	111.5	83.0	39.4	3.3	4.6	5.6	6.2	3.2
92.5°	128.5	119.9	90.0	42.7	6.8	3.5	3.4	3.3	3.3
95°	138.8	130.2	98.4	48.5	15.1	3.6	3.4	3.3	3.3
97.5°	149.5	140.2	106.8	63.2	27.2	6.3	3.5	3.4	3.4
100°	159.5	149.5	118.1	80.3	41.7	13.6	3.6	3.4	3.4
102.5°	169.0	160.8	134.2	97.8	57.6	24.2	6.7	3.5	3.5
105°	182.2	175.7	151.8	116.0	74.6	37.8	14.5	5.2	3.8
107.5°	197.9	193.0	169.6	133.5	92.2	53.3	25.6	12.2	10.4
110°	215.1	209.9	186.8	151.0	109.7	69.7	39.2	22.6	20.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	231.2	226.2	203.6	168.0	127.4	86.9	54.6	35.9	32.4
115°	246.8	242.1	219.8	184.8	144.7	104.6	71.4	51.0	47.3
117.5°	262.1	257.5	235.5	201.5	161.8	122.2	88.5	67.2	63.1
120°	276.6	272.4	250.9	217.5	178.3	139.4	106.2	84.8	79.9
122.5°	290.4	286.6	265.8	233.0	194.6	156.5	123.7	102.4	97.3
125°	303.8	300.3	279.9	247.7	210.4	173.1	141.1	120.1	115.3
127.5°	316.5	313.7	293.3	262.2	225.8	189.3	158.4	137.9	132.7
130°	328.7	325.9	306.2	276.0	240.3	205.3	175.3	155.7	150.2
132.5°	339.8	337.8	318.4	289.1	254.7	220.7	191.9	172.9	167.2
135°	350.3	348.6	329.8	301.6	268.3	235.7	208.0	189.7	184.4
137.5°	360.0	358.9	340.6	313.5	281.5	250.3	223.8	206.2	201.0
140°	369.1	368.3	350.8	324.7	294.2	264.3	238.9	222.5	216.9
142.5°	377.1	377.1	360.2	335.5	306.0	277.8	253.5	238.3	232.4
145°	384.6	385.0	368.8	345.4	317.4	290.5	267.6	253.3	247.9
147.5°	391.1	392.0	376.5	354.4	327.9	302.7	281.3	268.0	262.6
150°	396.7	398.0	383.6	362.8	338.0	314.3	294.1	282.0	276.7
152.5°	401.4	403.2	389.8	370.6	347.4	325.5	306.7	295.1	290.2
155°	405.3	407.5	395.1	377.3	355.9	335.8	318.6	308.1	303.0
157.5°	408.2	410.9	399.5	383.1	363.8	345.4	329.7	320.3	315.7
160°	410.0	413.3	403.1	388.3	370.8	354.4	340.5	331.9	327.6
162.5°	411.1	414.8	405.7	392.5	377.0	362.7	350.2	342.6	338.5
165°	411.6	415.4	407.5	395.8	382.4	370.1	359.7	352.7	348.5
167.5°	410.6	415.2	408.4	398.2	387.1	376.7	368.1	362.4	358.3
170°	408.9	413.7	408.4	399.9	390.9	382.8	375.8	371.4	367.1
172.5°	406.5	411.4	407.3	400.8	394.0	387.8	382.7	379.5	374.8
175°	403.2	408.2	405.2	400.7	396.0	392.0	389.0	386.7	381.6
177.5°	398.8	404.0	402.5	399.9	397.3	395.5	394.4	393.1	388.7
180°	397.9	397.9	397.9	397.9	397.9	397.9	397.9	397.9	397.9

(END OF REPORT)