

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: 124P106

Luminaire Tested: **BC-232A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 124P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BC-232A
Description: Wall Bracket with white translucent lens.
Light Source: Two-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B2321120RH Electronic

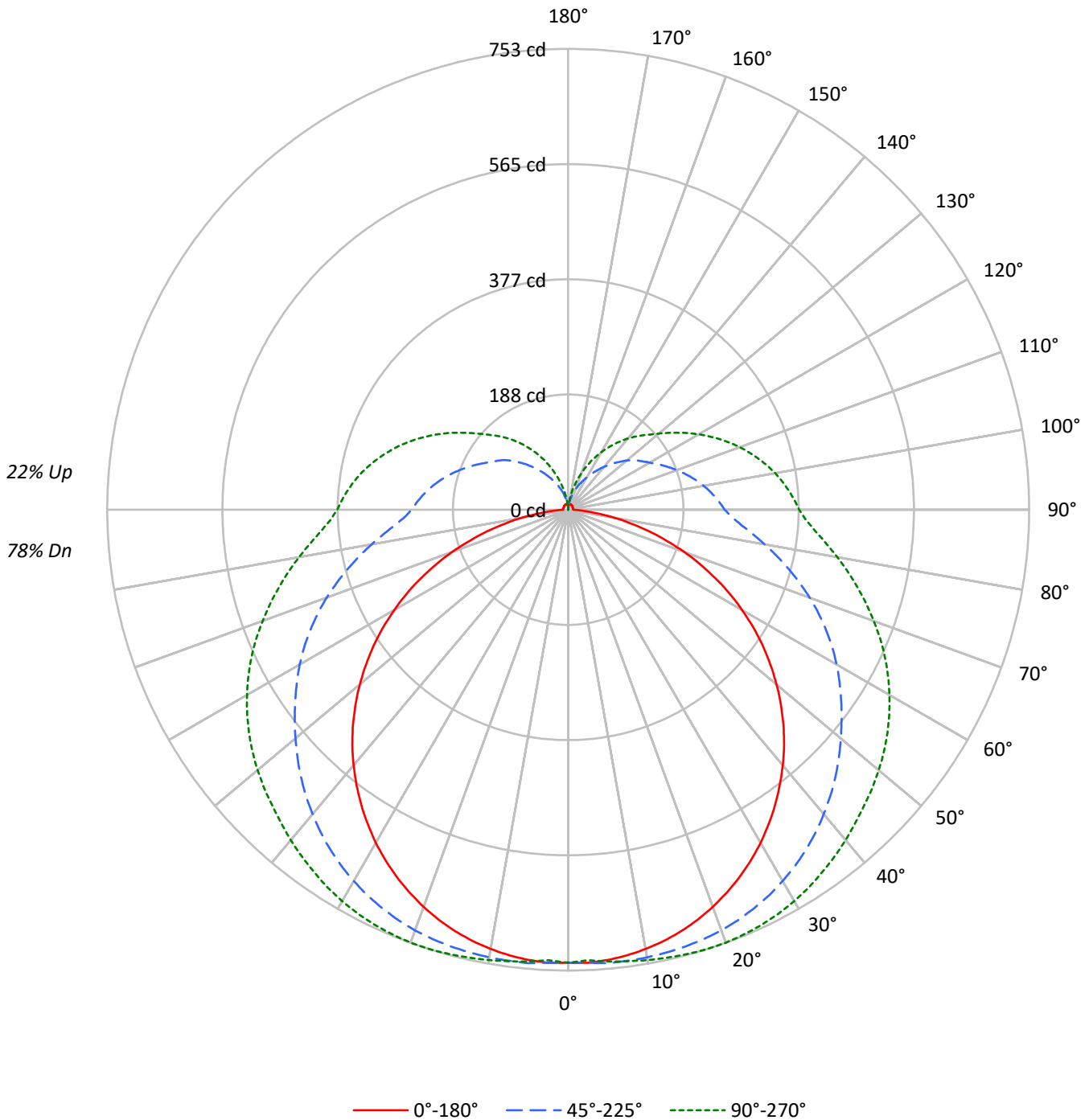
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3923.8 lumens
Efficiency: 68.8%
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.49 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.35' x L: 3.94' x H: 0.19')
CIE Type: Semi-Direct

Input Watts (W): 56.9
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	78	78	78	78	75	75	75	75	68	68	68	62	62	62	56	56	56	54
1	69	65	62	58	66	62	59	56	56	54	51	51	49	47	46	45	43	40
2	62	56	50	46	59	53	48	44	48	44	41	44	40	38	39	37	34	32
3	56	48	42	37	53	46	40	36	42	37	33	38	34	31	34	31	28	26
4	51	42	36	31	48	40	34	30	37	32	28	33	29	26	30	27	24	22
5	47	37	31	26	44	36	30	25	33	27	24	30	25	22	27	23	20	18
6	43	33	27	22	41	32	26	22	29	24	20	27	22	19	24	21	18	16
7	40	30	24	20	38	29	23	19	26	21	18	24	20	17	22	18	15	14
8	37	27	21	17	35	26	21	17	24	19	16	22	18	15	20	16	14	12
9	34	25	19	15	33	24	19	15	22	17	14	20	16	13	19	15	12	11
10	32	23	17	14	31	22	17	13	20	16	13	19	15	12	17	14	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5712	5712	5712
5°	5697	5561	5485
10°	5663	5426	5351
15°	5625	5315	5250
20°	5574	5221	5173
25°	5516	5129	5097
30°	5451	5041	5024
35°	5370	4952	4954
40°	5281	4858	4898
45°	5176	4768	4857
50°	5047	4677	4851
55°	4886	4605	4849
60°	4674	4555	4847
65°	4396	4498	4849
70°	4005	4433	4844
75°	3464	4365	4859
80°	2711	4329	4906
85°	1707	4385	5035



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	70.8	1.8	1.2	0°	740	740	740	740	740	
10°-20°	208.5	5.3	3.7	5°	738	741	744	745	741	70
20°-30°	329.3	8.4	5.8	15°	713	724	739	752	752	201
30°-40°	419.0	10.7	7.4	25°	662	686	718	743	748	305
40°-50°	468.4	11.9	8.2	35°	589	628	678	714	723	369
50°-60°	475.5	12.1	8.3	45°	497	550	617	667	684	383
60°-70°	439.5	11.2	7.7	55°	388	456	544	613	636	347
70°-80°	366.8	9.3	6.4	65°	266	349	465	544	571	263
80°-90°	282.6	7.2	5.0	75°	137	243	372	459	489	145
90°-100°	235.9	6.0	4.1	85°	30	150	284	374	406	35
100°-110°	199.0	5.1	3.5	90°	8	122	256	346	377	5
110°-120°	157.2	4.0	2.8	95°	8	110	241	330	362	7
120°-130°	115.5	2.9	2.0	105°	8	88	207	292	322	9
130°-140°	78.3	2.0	1.4	115°	8	76	171	246	273	8
140°-150°	46.9	1.2	0.8	125°	8	62	140	198	219	8
150°-160°	22.3	0.6	0.4	135°	9	47	108	157	172	7
160°-170°	7.3	0.2	0.1	145°	9	34	76	117	131	6
170°-180°	0.9	0.0	0.0	155°	10	22	48	70	86	4
0°-30°	608.5	15.5	10.7	165°	10	14	24	33	43	3
0°-40°	1027.6	26.2	18.0	175°	10	10	9	9	7	1
0°-60°	1971.5	50.2	34.6	180°	0	0	0	0	0	
0°-90°	3060.4	78.0	53.7							
90°-120°	592.1	15.1	10.4							
90°-150°	832.9	21.2	14.6							
90°-180°	863.0	22.0	15.1							
0°-180°	3923.8	100.0	68.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.1	740.1	740.1	740.1	740.1
2.5°	740.9	740.9	740.9	741.4	736.7
5°	738.5	740.9	743.8	745.1	741.2
7.5°	734.6	739.9	743.5	747.0	744.1
10°	728.8	736.5	742.8	749.1	747.3
12.5°	721.8	731.0	741.2	750.8	749.7
15°	713.1	724.5	738.9	751.7	751.5
17.5°	702.5	716.9	735.7	751.8	753.1
20°	690.6	707.8	731.4	750.5	752.8
22.5°	677.1	697.6	725.7	747.5	751.0
25°	662.3	686.1	718.4	743.2	748.2
27.5°	646.0	673.3	710.4	738.0	744.1
30°	628.7	659.4	700.6	731.6	738.4
32.5°	609.3	644.0	689.9	723.5	731.7
35°	589.2	627.6	677.7	714.3	723.3
37.5°	567.7	609.9	664.3	703.8	714.6
40°	545.4	591.1	649.5	692.7	705.0
42.5°	522.0	571.2	634.0	680.2	694.2
45°	497.1	550.0	617.4	667.3	683.7
47.5°	471.3	527.8	599.8	654.4	673.5
50°	444.5	504.5	581.4	641.7	662.3
52.5°	416.5	480.5	562.9	628.0	650.0
55°	388.1	455.5	544.3	613.4	636.5
57.5°	358.7	429.9	525.6	597.5	621.8
60°	328.1	403.4	506.4	580.4	605.8
62.5°	297.5	376.5	486.1	562.4	589.1
65°	265.6	348.8	464.7	543.5	571.0
67.5°	233.6	321.7	442.7	523.4	551.8
70°	201.0	295.4	419.6	502.3	531.0
72.5°	168.7	269.3	396.1	480.7	510.3
75°	137.1	243.4	372.2	458.7	489.2
77.5°	106.3	218.0	348.9	436.7	467.8
80°	77.7	193.3	325.8	414.8	446.2
82.5°	51.6	170.4	303.8	393.7	425.2
85°	29.9	149.7	283.5	373.9	405.5
87.5°	14.4	132.8	266.8	357.1	388.8
90°	8.3	121.9	255.5	346.2	377.3
92.5°	8.2	115.7	248.3	338.3	369.6
95°	8.2	109.7	240.7	330.2	361.5
97.5°	8.2	103.7	232.9	321.6	352.8
100°	8.1	98.0	224.6	312.4	343.3
102.5°	8.1	92.6	215.9	302.6	333.0
105°	8.2	87.9	207.1	292.3	322.0
107.5°	8.1	83.8	198.1	281.3	310.3
110°	8.1	80.6	188.9	269.6	298.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	78.2	179.8	257.8	285.8
115°	8.1	75.6	170.9	245.8	273.0
117.5°	8.2	73.0	162.2	233.6	259.7
120°	8.3	70.1	153.8	221.5	246.3
122.5°	8.4	66.4	146.3	209.5	232.8
125°	8.5	62.5	139.8	197.5	219.4
127.5°	8.6	58.4	133.2	185.9	206.2
130°	8.7	54.4	125.2	175.4	193.5
132.5°	8.8	50.8	116.6	166.3	181.9
135°	8.9	47.1	108.2	157.4	171.7
137.5°	9.1	43.6	99.8	148.2	161.8
140°	9.1	40.1	91.7	138.9	151.8
142.5°	9.2	36.7	83.7	128.9	141.2
145°	9.2	33.6	76.1	117.2	130.7
147.5°	9.4	30.7	68.5	105.0	119.8
150°	9.5	28.0	61.2	93.0	108.7
152.5°	9.6	25.0	54.3	81.6	97.7
155°	9.5	22.3	47.8	70.5	86.5
157.5°	9.6	19.8	41.7	60.2	75.2
160°	9.6	17.5	35.7	50.4	64.1
162.5°	9.6	15.5	30.2	41.1	53.0
165°	9.6	13.6	24.5	32.7	42.6
167.5°	9.7	12.0	19.7	25.0	32.9
170°	9.7	10.6	15.4	18.3	23.6
172.5°	9.7	9.9	11.8	12.9	11.3
175°	9.7	9.5	9.3	8.8	7.2
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)