

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: 124P107

Luminaire Tested: **BC-132A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 124P107
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BC-132A
Description: Wall Bracket with white translucent lens tested
in ceiling mounted position.
Light Source: One - FO32T8/35K - 2850 Lumens - 32 Watts
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 101.3

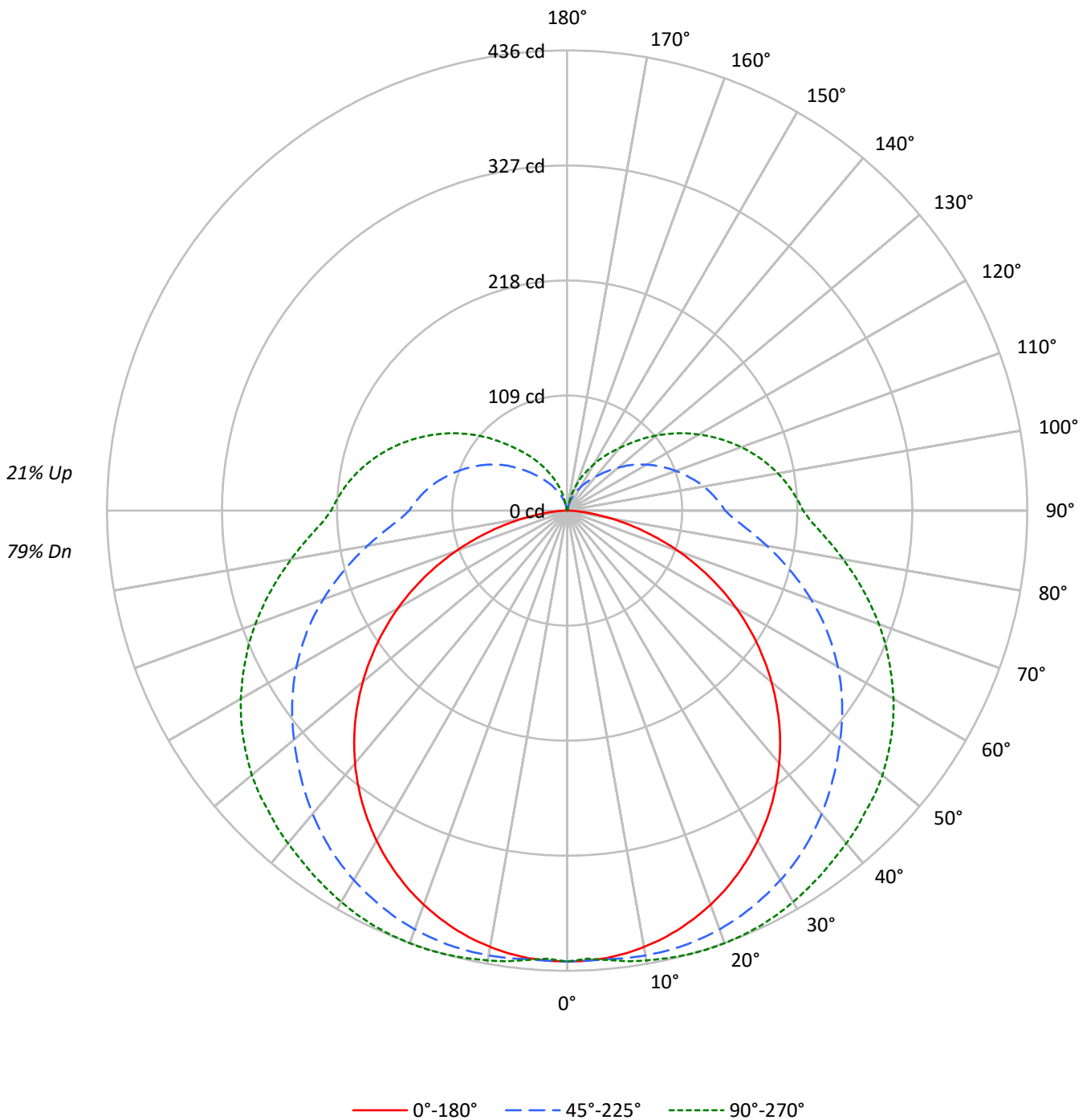
Summary

Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 2255.8 lumens
Efficiency: 79.2%
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.5 / 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): 34.7
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	90	90	90	90	86	86	86	86	79	79	79	72	72	72	65	65	65	62
1	80	75	71	67	76	72	68	64	65	62	59	59	57	54	54	52	50	47
2	72	64	58	53	68	61	55	51	55	51	47	50	47	43	46	43	40	37
3	65	55	48	43	61	53	46	41	48	43	38	44	39	35	39	36	33	30
4	59	49	41	35	56	46	39	34	42	36	32	38	34	30	35	31	28	25
5	54	43	35	30	51	41	34	29	38	32	27	34	29	25	31	27	24	21
6	49	38	31	26	47	37	30	25	34	28	23	31	26	22	28	24	20	18
7	46	35	27	22	43	33	26	22	30	25	20	28	23	19	25	21	18	16
8	42	31	24	20	40	30	24	19	28	22	18	25	21	17	23	19	16	14
9	40	29	22	18	38	28	21	17	25	20	16	23	19	15	21	17	14	13
10	37	26	20	16	35	25	19	15	23	18	14	22	17	14	20	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3298	3298	3298
5°	3283	3189	3161
10°	3262	3123	3095
15°	3238	3065	3039
20°	3207	3009	2990
25°	3171	2953	2947
30°	3131	2901	2904
35°	3083	2850	2868
40°	3026	2796	2847
45°	2956	2745	2835
50°	2869	2705	2841
55°	2764	2677	2838
60°	2634	2648	2837
65°	2459	2616	2836
70°	2224	2580	2844
75°	1889	2543	2857
80°	1433	2528	2889
85°	801	2561	2966



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	40.8	1.8	1.4	0°	427	427	427	427	427	
10°-20°	120.2	5.3	4.2	5°	426	425	427	429	427	40
20°-30°	190.0	8.4	6.7	15°	410	416	427	435	436	116
30°-40°	242.0	10.7	8.5	25°	381	394	415	430	434	176
40°-50°	271.6	12.0	9.5	35°	338	361	391	414	420	212
50°-60°	276.7	12.3	9.7	45°	284	316	357	391	401	219
60°-70°	256.6	11.4	9.0	55°	220	261	318	360	375	196
70°-80°	215.3	9.5	7.6	65°	149	202	272	320	336	147
80°-90°	166.3	7.4	5.8	75°	75	141	219	272	290	80
90°-100°	137.7	6.1	4.8	85°	14	87	168	222	242	17
100°-110°	115.4	5.1	4.0	90°	1	70	150	204	224	1
110°-120°	89.2	4.0	3.1	95°	0	62	141	195	214	0
120°-130°	63.0	2.8	2.2	105°	0	48	121	172	190	0
130°-140°	39.2	1.7	1.4	115°	0	36	98	144	160	0
140°-150°	21.2	0.9	0.7	125°	0	27	76	114	128	0
150°-160°	8.9	0.4	0.3	135°	1	19	52	83	94	1
160°-170°	1.8	0.1	0.1	145°	1	12	33	56	64	1
170°-180°	0.0	0.0	0.0	155°	1	5	19	31	38	1
0°-30°	351.0	15.6	12.3	165°	1	2	6	11	16	0
0°-40°	593.1	26.3	20.8	175°	0	0	0	0	0	0
0°-60°	1141.3	50.6	40.0	180°	0	0	0	0	0	0
0°-90°	1779.5	78.9	62.4							
90°-120°	342.2	15.2	12.0							
90°-150°	465.6	20.6	16.3							
90°-180°	476.0	21.1	16.7							
0°-180°	2255.8	100.0	79.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	427.3	427.3	427.3	427.3	427.3
2.5°	426.9	426.9	426.8	427.1	424.9
5°	425.6	425.2	426.7	428.6	427.4
7.5°	423.2	423.3	427.6	431.3	430.7
10°	419.8	421.1	428.0	433.3	432.8
12.5°	415.7	418.6	427.7	434.5	434.5
15°	410.5	415.6	426.7	435.0	435.8
17.5°	404.3	411.4	424.8	435.0	436.4
20°	397.4	406.8	422.3	434.0	436.2
22.5°	389.6	401.0	418.9	432.5	435.3
25°	380.9	394.5	414.6	430.0	433.8
27.5°	371.4	387.4	409.7	427.0	431.4
30°	361.2	379.4	404.3	423.3	428.2
32.5°	350.1	370.6	398.2	418.8	424.5
35°	338.4	361.0	391.3	413.8	420.4
37.5°	325.9	350.7	383.6	408.2	415.8
40°	312.7	339.9	375.2	402.3	411.6
42.5°	298.8	328.2	366.3	396.7	406.9
45°	284.1	315.9	356.9	390.8	401.0
47.5°	268.7	302.9	347.4	384.2	396.2
50°	252.9	289.3	337.8	377.1	390.0
52.5°	236.5	275.3	328.2	369.0	382.6
55°	219.8	261.0	318.1	360.5	374.8
57.5°	202.6	246.3	307.5	351.3	366.4
60°	185.1	231.4	296.1	341.4	357.0
62.5°	167.2	216.3	284.3	330.9	346.9
65°	148.8	201.6	272.1	319.9	336.5
67.5°	130.4	186.6	259.3	308.6	325.9
70°	111.8	171.6	246.0	296.6	314.4
72.5°	93.1	156.4	232.4	284.0	302.4
75°	74.9	141.3	218.7	271.6	290.3
77.5°	57.5	126.5	205.3	258.9	277.9
80°	41.2	112.2	192.1	246.4	265.6
82.5°	26.5	98.9	179.3	234.1	253.5
85°	14.1	86.7	167.5	222.4	241.8
87.5°	4.8	76.4	157.0	211.8	231.1
90°	0.7	69.6	149.7	204.5	223.6
92.5°	0.5	65.8	145.4	199.7	218.9
95°	0.5	62.2	140.9	194.9	213.9
97.5°	0.4	58.6	136.3	189.7	208.6
100°	0.4	55.1	131.3	184.2	202.8
102.5°	0.4	51.7	126.2	178.3	196.6
105°	0.4	48.4	120.7	171.9	189.9
107.5°	0.4	45.3	115.3	165.3	182.9
110°	0.4	42.2	109.7	158.3	175.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	39.0	104.1	151.3	168.1
115°	0.4	36.0	98.5	144.0	160.3
117.5°	0.4	33.4	92.7	136.6	152.3
120°	0.5	30.9	87.0	129.2	144.3
122.5°	0.5	28.9	81.3	121.6	136.0
125°	0.5	26.8	75.5	113.9	127.6
127.5°	0.6	24.6	69.4	106.2	119.1
130°	0.7	22.6	63.2	98.5	110.7
132.5°	0.7	20.6	57.6	90.5	102.2
135°	0.8	18.7	52.1	82.9	93.6
137.5°	0.9	16.9	46.9	75.5	85.3
140°	0.9	15.1	41.9	69.0	77.5
142.5°	1.0	13.3	37.4	62.9	70.6
145°	1.1	11.6	33.3	56.1	64.0
147.5°	1.1	10.0	29.4	49.1	57.4
150°	1.2	8.4	25.7	42.9	50.6
152.5°	1.2	6.8	22.1	36.6	44.3
155°	1.3	5.1	18.9	30.8	38.2
157.5°	1.3	4.2	15.8	25.4	32.3
160°	1.4	3.2	12.4	20.4	26.8
162.5°	1.4	2.3	9.3	15.5	21.2
165°	1.4	1.6	6.3	11.0	15.6
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)