

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 167P105

Luminaire Tested: **RWW-1BX40A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 167P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RWW-1BX40A
Description: Biaxial Wall Wash Luminaire with a 90 degree bent clear polycarbonate lens sheilding the lamp.
Light Source: One - F40BX/SPX35/RS - 3150 Lumens - 40 Watts
Ballast/Driver: Magnetek B240I20HP Electronic

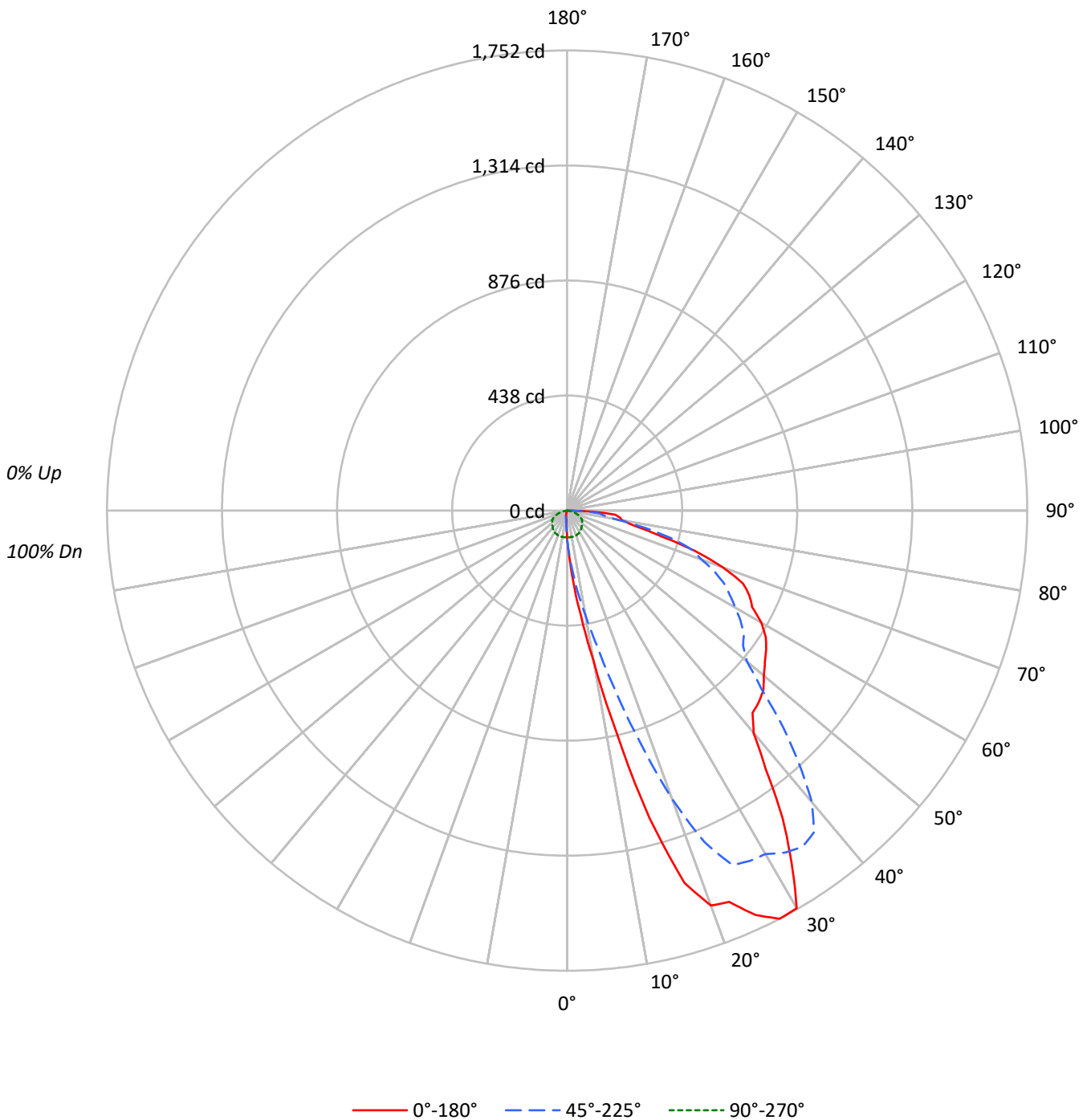
Summary

Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 2020.4 lumens
Efficiency: 64.1%
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 3.5 / 1.35 / 3
Luminous Opening: Rectangular (W 1.9' x L: 0.69' x H: 0')
CIE Type: Direct

Input Watts (W): 39.7
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	50	30	10	50	30	10	0		
RCR																										
0	76	76	76	76	75	75	75	75	71	71	71	68	68	68	65	65	65	64					64			
1	69	66	63	60	67	64	61	59	61	59	57	59	57	55	57	55	54	52					52			
2	62	56	52	48	60	55	51	47	53	49	46	51	48	45	49	46	44	42					42			
3	56	49	43	39	55	48	43	38	46	41	38	44	40	37	42	39	36	35					35			
4	51	43	37	32	49	42	36	32	40	35	31	39	34	31	37	33	30	29					29			
5	47	38	31	27	45	37	31	27	36	30	26	34	30	26	33	29	26	24					24			
6	43	34	27	23	41	33	27	23	32	26	23	31	26	22	29	25	22	21					21			
7	39	30	24	20	38	29	24	20	28	23	20	27	23	19	27	22	19	18					18			
8	36	27	21	17	35	27	21	17	26	21	17	25	20	17	24	20	17	16					16			
9	34	25	19	15	33	24	19	15	23	19	15	23	18	15	22	18	15	14					14			
10	31	22	17	13	31	22	17	13	21	17	13	21	16	13	20	16	13	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	851	851	851
5°	2280	846	274
10°	4889	855	184
15°	10362	872	120
20°	14062	888	53
25°	15482	893	9
30°	16669	906	10
35°	14417	907	10
40°	11902	916	0
45°	12053	934	0
50°	12565	964	0
55°	13319	1008	0
60°	14089	1041	0
65°	14969	1036	0
70°	15188	966	0
75°	11359	830	0
80°	10035	523	0
85°	17340	379	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	15.4	0.8	0.5	0°	103	103	103	103	103	
10°-20°	108.9	5.4	3.5	5°	275	229	102	45	33	36
20°-30°	270.4	13.4	8.6	15°	1212	709	102	20	14	346
30°-40°	378.7	18.7	12.0	25°	1699	1489	98	7	1	782
40°-50°	375.0	18.6	11.9	35°	1430	1562	90	0	1	885
50°-60°	355.1	17.6	11.3	45°	1032	1158	80	0	0	799
60°-70°	292.1	14.5	9.3	55°	925	821	70	0	0	826
70°-80°	171.9	8.5	5.5	65°	766	660	53	0	0	750
80°-90°	53.0	2.6	1.7	75°	356	417	26	0	0	406
90°-100°	0.0	0.0	0.0	85°	183	122	4	0	0	146
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	13
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	394.6	19.5	12.5	165°	0	0	0	0	0	0
0°-40°	773.4	38.3	24.6	175°	0	0	0	0	0	0
0°-60°	1503.5	74.4	47.7	180°	0	0	0	0	0	0
0°-90°	2020.4	100.0	64.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	2020.4	100.0	64.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	103	103	103	103	103	103	103	103	103
2.5°	169	184	161	132	101	79	66	61	52
5°	275	285	229	164	102	62	45	38	33
7.5°	406	405	314	198	102	51	32	29	28
10°	583	574	408	238	102	41	28	24	22
12.5°	861	828	530	284	102	34	24	20	19
15°	1212	1142	709	329	102	30	20	16	14
17.5°	1486	1416	928	379	102	28	18	11	10
20°	1600	1574	1167	432	101	25	15	8	6
22.5°	1613	1596	1366	500	99	22	10	4	3
25°	1699	1647	1489	588	98	20	7	2	1
27.5°	1752	1708	1504	693	97	18	4	0	1
30°	1748	1725	1510	806	95	16	2	0	1
32.5°	1590	1650	1544	920	92	14	0	0	1
35°	1430	1500	1562	1027	90	11	0	0	1
37.5°	1243	1332	1544	1110	88	8	0	0	1
40°	1104	1158	1449	1152	85	6	0	0	0
42.5°	1045	1050	1307	1129	82	4	0	0	0
45°	1032	1009	1158	1101	80	2	0	0	0
47.5°	1013	992	1001	1070	77	1	0	0	0
50°	978	962	893	1051	75	0	0	0	0
52.5°	949	925	844	1012	73	0	0	0	0
55°	925	895	821	954	70	0	0	0	0
57.5°	897	867	783	860	67	0	0	0	0
60°	853	832	739	740	63	0	0	0	0
62.5°	794	772	699	624	58	0	0	0	0
65°	766	726	660	519	53	0	0	0	0
67.5°	725	695	607	465	47	0	0	0	0
70°	629	623	544	416	40	0	0	0	0
72.5°	508	503	500	365	33	0	0	0	0
75°	356	364	417	312	26	0	0	0	0
77.5°	257	247	300	256	19	0	0	0	0
80°	211	201	184	196	11	0	0	0	0
82.5°	203	186	140	125	7	0	0	0	0
85°	183	161	122	60	4	0	0	0	0
87.5°	93	72	60	31	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)