

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: 175P155

Luminaire Tested: **BASIX HALF ROUND**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P155
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX HALF ROUND
Description: Basix Half-Round Luminaire with perforated shield and lens.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic L.O.B.F. = Unknown

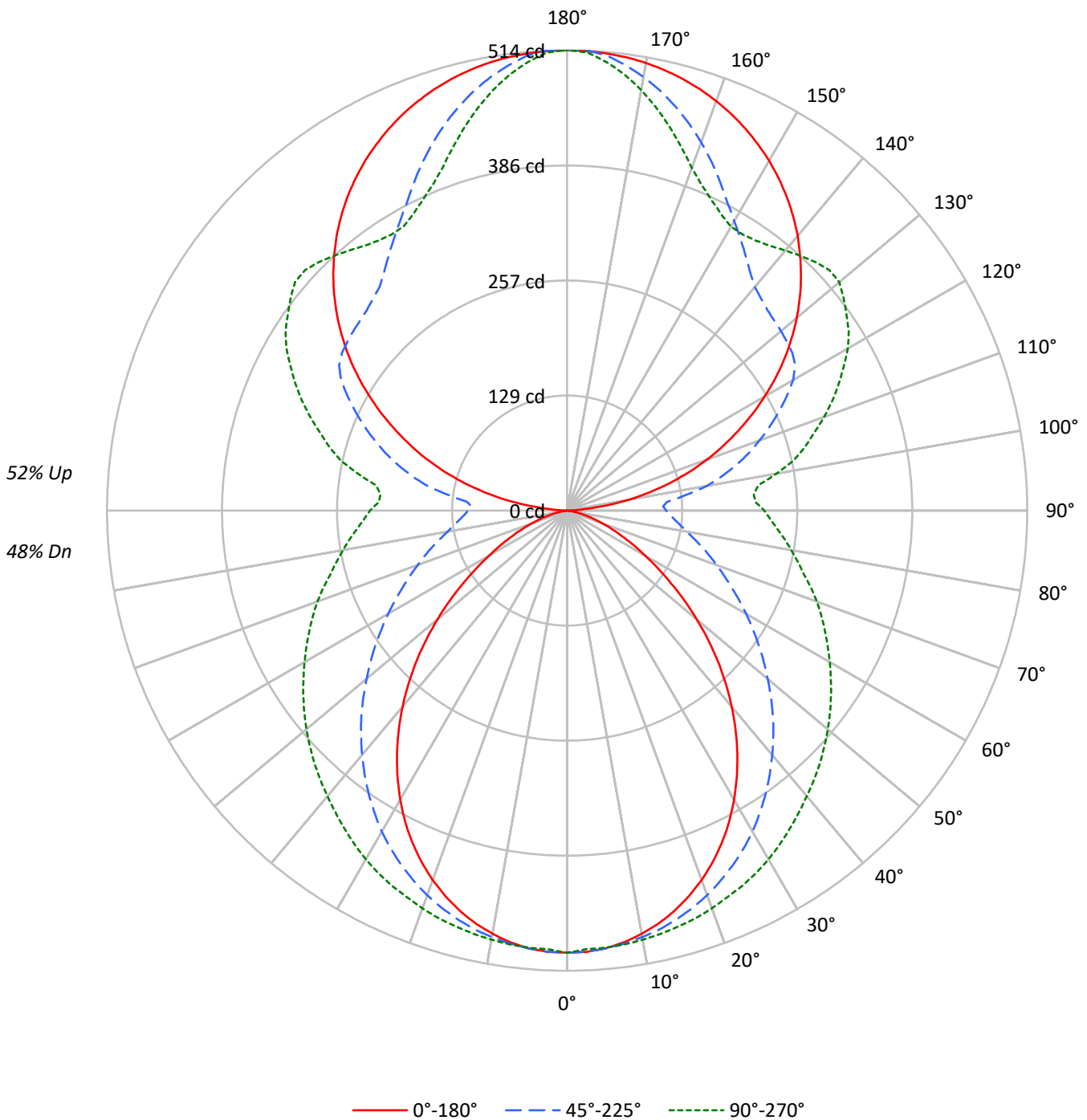
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3335.2 lumens
Efficiency: 59.6%
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.36 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 0.43' x L: 4.01' x H: 0.21')
CIE Type: General Diffuse

Input Watts (W): 58
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	63	63	63	63	58	58	58	58	49	49	49	40	40	40	32	32	32	28
1	57	54	51	49	52	50	47	45	41	40	38	34	33	32	27	26	25	22
2	52	47	43	39	47	43	39	37	36	33	31	29	27	26	23	22	21	18
3	47	41	36	32	43	38	34	30	31	28	26	26	23	21	20	19	17	15
4	43	36	31	27	39	33	29	25	28	24	22	23	20	18	18	16	15	13
5	39	32	27	23	36	30	25	22	25	21	19	20	18	16	16	14	13	11
6	36	29	24	20	33	26	22	19	22	19	16	18	16	14	15	13	11	9
7	33	26	21	18	30	24	20	16	20	17	14	17	14	12	13	11	10	8
8	31	23	19	15	28	22	17	14	18	15	13	15	13	11	12	10	9	7
9	29	21	17	14	26	20	16	13	17	14	11	14	11	10	11	9	8	7
10	27	20	15	12	25	18	14	12	15	12	10	13	10	9	11	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3082	3082	3082
5°	3061	2978	2945
10°	3015	2872	2840
15°	2950	2770	2748
20°	2862	2666	2666
25°	2751	2557	2595
30°	2609	2445	2529
35°	2436	2323	2463
40°	2233	2198	2407
45°	1997	2076	2368
50°	1729	1951	2334
55°	1437	1837	2307
60°	1152	1733	2291
65°	907	1644	2292
70°	675	1580	2314
75°	444	1545	2338
80°	219	1537	2425
85°	54	1614	2563



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	46.6	1.4	0.8	0°	494	494	494	494	494	
10°-20°	133.3	4.0	2.4	5°	491	491	491	492	490	47
20°-30°	201.3	6.0	3.6	15°	463	466	473	480	481	130
30°-40°	240.8	7.2	4.3	25°	409	418	437	457	462	188
40°-50°	248.6	7.5	4.4	35°	331	349	386	423	434	207
50°-60°	229.4	6.9	4.1	45°	238	266	325	378	399	183
60°-70°	195.6	5.9	3.5	55°	142	180	261	332	360	128
70°-80°	160.1	4.8	2.9	65°	68	105	203	286	318	69
80°-90°	131.6	3.9	2.4	75°	22	58	156	242	274	24
90°-100°	134.5	4.0	2.4	85°	1	36	121	204	236	2
100°-110°	204.9	6.1	3.7	90°	0	34	111	189	220	1
110°-120°	256.8	7.7	4.6	95°	20	60	112	182	209	27
120°-130°	279.4	8.4	5.0	105°	119	135	195	251	275	125
130°-140°	266.7	8.0	4.8	115°	211	190	261	313	335	208
140°-150°	233.5	7.0	4.2	125°	297	242	307	363	381	265
150°-160°	191.8	5.8	3.4	135°	369	313	316	369	392	285
160°-170°	132.1	4.0	2.4	145°	428	384	348	358	368	268
170°-180°	48.1	1.4	0.9	155°	471	444	405	386	382	217
0°-30°	381.2	11.4	6.8	165°	499	488	467	451	443	141
0°-40°	622.1	18.7	11.1	175°	512	514	510	506	503	49
0°-60°	1100.0	33.0	19.6	180°	514	514	514	514	514	
0°-90°	1587.3	47.6	28.3							
90°-120°	596.2	17.9	10.6							
90°-150°	1375.9	41.3	24.6							
90°-180°	1748.0	52.4	31.2							
0°-180°	3335.2	100.0	59.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.7	493.7	493.7	493.7	493.7
2.5°	493.4	493.3	493.2	493.3	490.5
5°	490.8	490.6	491.1	492.3	490.1
7.5°	486.3	486.4	487.9	490.2	488.8
10°	480.0	481.0	483.7	487.1	486.7
12.5°	472.4	473.9	478.9	483.9	484.1
15°	462.8	465.6	472.6	480.1	480.8
17.5°	451.8	455.6	465.4	475.1	477.4
20°	439.1	444.2	457.2	469.2	472.7
22.5°	425.0	431.5	447.7	463.2	467.4
25°	409.2	417.5	437.4	456.8	462.5
27.5°	391.9	402.0	426.2	449.7	456.7
30°	372.9	385.1	414.1	441.6	449.8
32.5°	352.7	367.3	400.5	432.4	442.1
35°	331.4	348.8	386.4	422.6	433.7
37.5°	309.2	328.9	371.7	412.2	425.2
40°	286.1	308.3	356.3	401.1	416.5
42.5°	262.2	287.3	340.8	389.7	408.1
45°	238.0	266.0	325.1	378.5	399.2
47.5°	213.5	244.4	308.7	367.3	389.7
50°	189.1	222.7	292.4	355.6	380.2
52.5°	165.0	201.2	276.6	343.8	370.1
55°	141.9	180.2	261.0	332.0	359.8
57.5°	120.4	159.6	245.6	320.2	349.3
60°	100.6	140.0	230.8	308.7	338.7
62.5°	83.5	121.6	216.5	297.2	328.1
65°	68.3	104.9	202.6	286.0	317.7
67.5°	54.6	90.1	189.8	275.3	307.5
70°	42.3	77.5	177.5	264.7	296.9
72.5°	31.5	66.7	166.3	253.5	285.3
75°	22.0	57.6	155.5	241.5	273.6
77.5°	14.1	50.1	145.0	231.1	263.8
80°	7.9	44.3	135.5	221.6	254.3
82.5°	3.6	39.6	127.8	212.4	244.9
85°	1.2	36.1	121.0	203.7	235.5
87.5°	0.4	34.3	115.1	195.9	227.3
90°	0.3	33.7	110.6	189.4	220.2
92.5°	3.5	38.4	107.2	181.1	210.7
95°	19.5	60.1	112.1	181.7	209.2
97.5°	44.5	82.4	133.8	190.3	215.2
100°	69.7	100.9	158.3	214.4	237.0
102.5°	94.4	117.2	176.8	235.7	259.0
105°	118.6	134.9	195.0	250.9	275.1
107.5°	142.4	152.8	212.3	267.0	289.4
110°	165.9	167.7	228.4	283.8	305.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.4	179.3	244.7	299.0	320.6
115°	210.6	190.5	260.7	313.2	334.7
117.5°	233.0	201.5	276.5	327.3	348.2
120°	254.8	213.3	291.4	340.4	362.0
122.5°	276.1	226.0	302.0	351.4	373.0
125°	296.6	241.8	307.0	362.8	380.9
127.5°	316.1	259.5	309.5	371.8	389.4
130°	334.9	277.4	311.8	374.8	396.8
132.5°	352.6	295.0	313.8	373.0	397.4
135°	369.4	312.6	316.5	369.3	392.4
137.5°	385.3	330.7	320.8	365.2	385.8
140°	400.6	349.1	326.0	360.7	379.2
142.5°	414.6	366.9	335.7	358.2	372.5
145°	427.8	384.2	347.6	357.5	368.0
147.5°	439.9	400.6	360.1	358.4	365.5
150°	451.2	416.1	373.2	365.5	366.0
152.5°	461.4	430.7	387.8	375.4	372.9
155°	470.8	444.4	404.6	386.4	382.3
157.5°	479.4	457.2	421.5	399.3	393.2
160°	486.8	468.8	437.8	415.8	407.2
162.5°	493.5	479.3	453.1	433.6	425.1
165°	499.2	488.5	467.2	451.0	443.2
167.5°	503.8	496.8	480.3	467.3	460.7
170°	507.7	504.4	491.9	482.3	476.9
172.5°	510.6	510.5	501.5	495.5	491.2
175°	512.5	513.5	510.2	506.5	502.9
177.5°	513.5	514.2	514.5	514.5	512.2
180°	514.3	514.3	514.3	514.3	514.3

(END OF REPORT)