

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: 175P154

Luminaire Tested: **BASIX PERF ARCH**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P154
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX PERF ARCH
Description: Basix Perf Arch 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

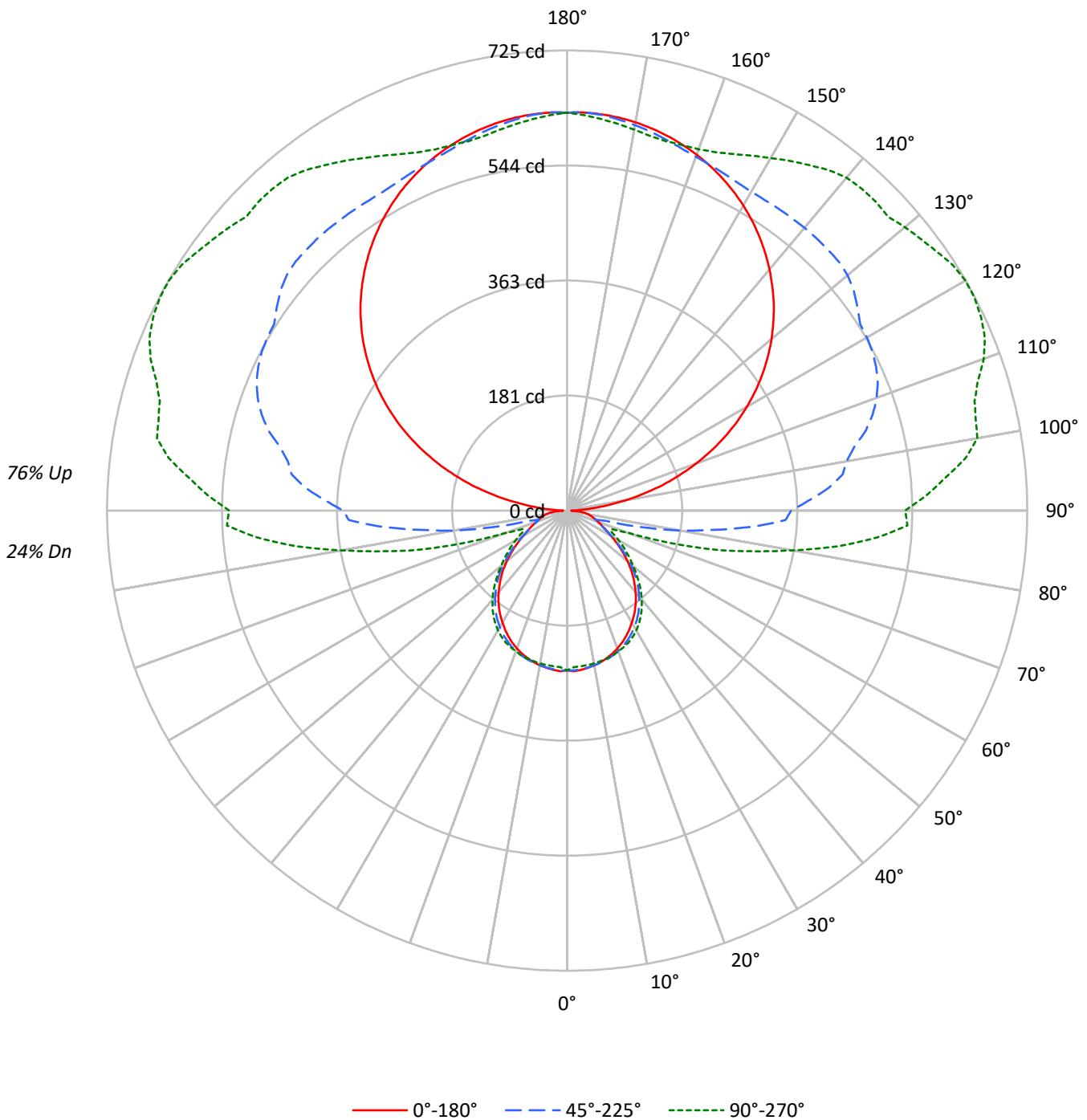
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4208.8 lumens
Efficiency: 75.2%
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4.01' x H: 0.29')
CIE Type: Semi-Indirect

Input Watts (W): 59
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

TEST NUMBER: 175P154
CATALOG NUMBER: BASIX PERF ARCH

Luminous Intensity Polar Plot





TEST NUMBER: 175P154

CATALOG NUMBER: BASIX PERF ARCH

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	76	76	76	76	67	67	67	67	52	52	52	37	37	37	24	24	24	18
1	67	63	60	57	59	56	53	50	42	40	38	30	28	27	18	17	17	11
2	61	55	50	45	54	48	44	41	37	34	31	26	24	22	16	14	13	9
3	55	48	42	38	49	42	38	34	32	29	26	23	20	18	14	12	11	7
4	51	42	36	32	44	37	32	28	28	25	22	20	18	16	12	11	10	6
5	46	38	31	27	41	33	28	24	25	22	19	18	15	13	11	10	8	5
6	43	34	27	23	37	30	25	21	23	19	16	16	14	12	10	8	7	5
7	39	30	24	20	35	27	22	18	21	17	14	15	12	10	9	8	6	4
8	36	27	21	18	32	24	19	16	19	15	12	13	11	9	8	7	6	4
9	34	25	19	15	30	22	17	14	17	13	11	12	10	8	8	6	5	3
10	31	23	17	14	28	20	16	12	16	12	10	11	9	7	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	845	845	845
5°	843	823	804
10°	833	800	783
15°	820	779	764
20°	804	756	745
25°	784	729	726
30°	758	698	698
35°	729	660	661
40°	693	613	615
45°	650	561	558
50°	597	497	495
55°	537	424	440
60°	477	351	387
65°	438	298	335
70°	423	266	501
75°	432	380	1305
80°	459	1275	2279
85°	419	2495	3663



TEST NUMBER: 175P154

CATALOG NUMBER: BASIX PERF ARCH

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	23.8	0.6	0.4	0°	252	252	252	252	252	
10°-20°	68.3	1.6	1.2	5°	252	252	251	249	246	24
20°-30°	103.4	2.5	1.8	15°	241	242	243	242	241	68
30°-40°	122.0	2.9	2.2	25°	219	221	225	229	229	101
40°-50°	118.4	2.8	2.1	35°	187	190	196	202	202	117
50°-60°	95.2	2.3	1.7	45°	147	149	155	159	160	113
60°-70°	68.0	1.6	1.2	55°	101	103	104	110	114	91
70°-80°	119.2	2.8	2.1	65°	64	63	62	71	75	64
80°-90°	287.4	6.8	5.1	75°	42	36	63	191	237	45
90°-100°	404.6	9.6	7.2	85°	20	98	293	438	489	19
100°-110°	477.5	11.3	8.5	90°	7	161	353	487	532	5
110°-120°	511.8	12.2	9.1	95°	37	204	414	553	599	42
120°-130°	492.3	11.7	8.8	105°	156	289	487	616	665	164
130°-140°	443.6	10.5	7.9	115°	274	365	537	673	720	270
140°-150°	368.3	8.8	6.6	125°	376	425	558	670	711	336
150°-160°	274.1	6.5	4.9	135°	460	476	581	664	688	355
160°-170°	171.6	4.1	3.1	145°	528	527	580	643	664	330
170°-180°	59.4	1.4	1.1	155°	578	573	586	610	620	267
0°-30°	195.5	4.6	3.5	165°	611	608	605	604	602	173
0°-40°	317.5	7.5	5.7	175°	627	627	626	623	619	60
0°-60°	531.1	12.6	9.5	180°	627	627	627	627	627	
0°-90°	1005.7	23.9	18.0							
90°-120°	1393.8	33.1	24.9							
90°-150°	2698.0	64.1	48.2							
90°-180°	3203.0	76.1	57.2							
0°-180°	4208.8	100.0	75.2							



TEST NUMBER: 175P154

CATALOG NUMBER: BASIX PERF ARCH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	251.7	251.7	251.7	251.7	251.7
2.5°	253.4	253.3	252.1	249.5	246.8
5°	251.9	251.8	250.8	248.9	246.2
7.5°	249.9	250.1	249.3	247.8	245.6
10°	247.5	247.8	247.5	246.2	244.6
12.5°	244.5	245.0	245.3	244.4	243.1
15°	240.7	241.6	242.7	242.4	241.3
17.5°	236.4	237.7	239.3	239.8	239.2
20°	231.2	232.9	235.4	236.6	236.1
22.5°	225.4	227.3	230.7	232.9	232.8
25°	218.9	221.0	225.2	228.8	229.1
27.5°	211.7	213.9	219.0	223.9	224.1
30°	203.9	206.4	212.1	217.5	218.0
32.5°	195.8	198.4	204.4	210.0	210.7
35°	187.0	189.7	195.8	201.6	202.4
37.5°	177.8	180.3	186.4	192.3	193.2
40°	167.8	170.5	176.2	181.8	183.1
42.5°	157.5	160.1	165.7	170.5	172.0
45°	146.8	149.1	154.6	158.6	160.1
47.5°	135.7	137.8	142.7	146.2	147.9
50°	124.3	126.3	130.0	133.3	135.7
52.5°	112.7	114.7	117.2	121.0	124.8
55°	101.3	103.1	104.4	109.7	114.1
57.5°	90.1	91.7	91.6	99.2	103.7
60°	80.0	81.1	80.1	89.3	93.8
62.5°	71.2	71.4	70.6	80.0	84.0
65°	63.7	62.6	62.3	71.1	75.1
67.5°	57.3	54.8	55.6	64.3	75.9
70°	51.7	47.5	50.1	74.3	101.9
72.5°	46.8	40.6	46.4	115.8	167.7
75°	42.3	35.8	63.0	190.8	236.8
77.5°	38.2	32.8	121.5	250.6	296.0
80°	33.5	31.8	181.0	309.3	360.4
82.5°	28.4	51.3	232.4	376.9	430.3
85°	19.9	97.5	292.6	438.1	489.4
87.5°	7.7	139.5	344.2	488.7	536.6
90°	6.7	161.0	352.8	486.9	532.5
92.5°	17.4	182.3	382.5	520.9	567.3
95°	37.3	203.6	414.0	552.6	598.6
97.5°	63.1	225.3	437.7	585.5	633.2
100°	93.7	250.5	446.9	602.2	656.1
102.5°	124.5	271.1	463.4	606.7	659.4
105°	155.5	288.7	487.0	615.6	664.6
107.5°	185.9	305.1	504.9	635.3	678.3
110°	216.0	321.6	519.0	654.3	698.6



TEST NUMBER: 175P154

CATALOG NUMBER: BASIX PERF ARCH

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	245.3	345.2	529.6	666.2	712.2
115°	273.6	365.3	537.0	673.2	719.9
117.5°	300.8	381.7	542.2	677.2	723.9
120°	326.8	396.9	545.3	677.4	724.6
122.5°	352.0	411.5	547.3	674.3	720.3
125°	376.0	425.2	558.4	670.4	711.0
127.5°	398.8	438.4	569.2	664.1	702.6
130°	420.4	451.3	576.9	656.1	694.7
132.5°	440.8	463.7	580.4	660.3	685.6
135°	460.5	476.4	581.2	663.7	687.9
137.5°	478.7	489.6	581.8	664.0	687.6
140°	496.0	502.6	581.6	659.1	684.7
142.5°	512.4	515.1	581.1	651.1	676.2
145°	527.7	526.9	580.5	642.9	664.5
147.5°	541.9	539.0	580.0	634.3	653.2
150°	555.2	550.8	580.1	625.6	641.4
152.5°	567.2	562.3	582.1	617.5	630.2
155°	578.1	573.2	585.7	610.2	619.7
157.5°	588.1	583.5	589.1	605.3	611.0
160°	596.7	592.6	593.1	603.9	605.7
162.5°	604.4	601.0	598.4	603.5	603.7
165°	611.1	608.1	604.7	604.1	602.3
167.5°	616.6	614.6	611.1	607.9	604.4
170°	621.2	620.2	616.7	613.4	609.4
172.5°	624.5	624.5	621.4	618.3	614.4
175°	626.7	626.9	625.8	622.9	619.1
177.5°	627.8	627.6	627.9	626.4	623.4
180°	627.0	627.0	627.0	627.0	627.0

(END OF REPORT)