

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: 175P153

Luminaire Tested: **BASIX PERF MONO**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX PERF MONO
Description: Basix Perf Mono 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

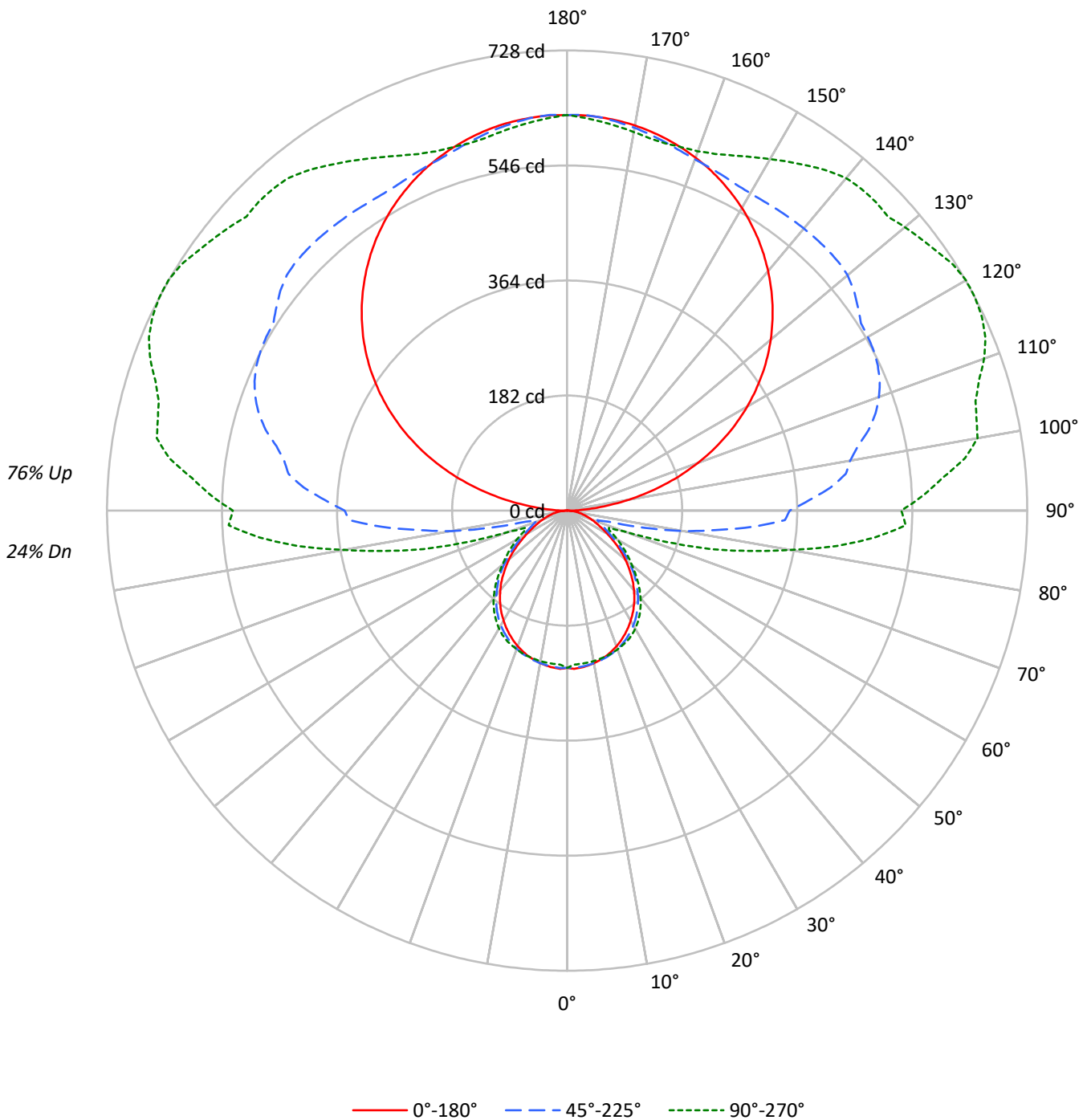
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4224.1 lumens
Efficiency: 75.4%
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 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

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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	76	76	76	76	68	68	68	68	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	16	11
2	61	55	50	46	54	49	44	41	37	34	31	26	24	22	16	14	13	9
3	56	48	42	38	49	43	38	34	32	29	26	23	20	18	14	12	11	7
4	51	42	36	32	45	38	32	28	28	25	22	20	18	16	12	11	9	6
5	46	38	31	27	41	33	28	24	25	22	19	18	15	13	11	9	8	5
6	43	34	27	23	38	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	22	18	32	24	19	16	19	15	12	13	11	9	8	7	6	4
9	34	25	19	16	30	22	17	14	17	13	11	12	10	8	8	6	5	3
10	32	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°	835	835	835
5°	835	814	795
10°	824	792	774
15°	812	771	756
20°	795	748	737
25°	774	721	718
30°	748	690	690
35°	718	652	654
40°	679	606	607
45°	633	555	550
50°	576	492	487
55°	509	423	432
60°	437	355	379
65°	377	310	327
70°	332	285	479
75°	291	404	1298
80°	252	1316	2266
85°	152	2510	3655



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	23.5	0.6	0.4	0°	249	249	249	249	249	
10°-20°	67.6	1.6	1.2	5°	250	249	248	246	243	24
20°-30°	102.3	2.4	1.8	15°	238	239	240	240	239	67
30°-40°	120.5	2.9	2.2	25°	216	218	223	227	227	99
40°-50°	116.7	2.8	2.1	35°	184	187	194	200	200	115
50°-60°	93.5	2.2	1.7	45°	143	146	153	157	158	110
60°-70°	67.1	1.6	1.2	55°	96	101	104	108	112	86
70°-80°	120.8	2.9	2.2	65°	55	64	65	70	73	55
80°-90°	290.1	6.9	5.2	75°	28	48	67	189	236	30
90°-100°	409.1	9.7	7.3	85°	7	116	294	437	488	8
100°-110°	484.5	11.5	8.7	90°	8	168	352	484	529	5
110°-120°	516.7	12.2	9.2	95°	42	216	418	551	596	47
120°-130°	495.1	11.7	8.8	105°	160	300	494	621	669	169
130°-140°	444.6	10.5	7.9	115°	277	372	542	678	724	273
140°-150°	368.3	8.7	6.6	125°	377	429	562	674	715	337
150°-160°	273.5	6.5	4.9	135°	460	477	583	666	690	355
160°-170°	171.1	4.1	3.1	145°	526	526	581	644	666	329
170°-180°	59.2	1.4	1.1	155°	576	571	584	610	620	266
0°-30°	193.4	4.6	3.5	165°	608	606	603	602	601	172
0°-40°	313.9	7.4	5.6	175°	624	625	624	622	618	59
0°-60°	524.0	12.4	9.4	180°	626	626	626	626	626	
0°-90°	1002.0	23.7	17.9							
90°-120°	1410.3	33.4	25.2							
90°-150°	2718.3	64.4	48.5							
90°-180°	3222.0	76.3	57.5							
0°-180°	4224.1	100.0	75.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	248.8	248.8	248.8	248.8	248.8
2.5°	250.7	250.5	249.3	246.9	244.0
5°	249.5	249.3	248.2	246.2	243.4
7.5°	247.6	247.6	246.8	245.2	242.9
10°	245.0	245.3	245.0	243.8	241.8
12.5°	242.0	242.5	242.8	242.1	240.4
15°	238.2	239.1	240.1	240.2	238.7
17.5°	233.7	235.0	236.9	237.6	236.5
20°	228.5	230.2	232.9	234.4	233.6
22.5°	222.6	224.7	228.2	230.7	230.3
25°	216.0	218.3	222.8	226.8	226.7
27.5°	208.8	211.2	216.6	221.7	221.8
30°	201.0	203.7	209.7	215.5	215.5
32.5°	192.9	195.7	202.0	207.9	208.3
35°	184.1	187.0	193.5	199.5	200.1
37.5°	174.6	177.8	184.2	190.3	190.9
40°	164.5	168.0	174.1	179.9	180.8
42.5°	154.1	157.5	163.6	168.7	169.7
45°	143.0	146.5	152.8	156.8	158.0
47.5°	131.5	135.2	141.1	144.5	145.7
50°	119.9	123.7	128.8	131.7	133.7
52.5°	108.1	112.2	116.3	119.3	122.9
55°	96.0	100.8	104.0	108.2	112.2
57.5°	84.2	89.8	91.9	97.7	101.8
60°	73.3	79.7	81.0	87.9	92.0
62.5°	63.5	70.9	72.3	78.6	82.1
65°	54.9	63.5	64.7	69.7	73.2
67.5°	47.5	57.7	58.5	62.5	71.3
70°	40.6	53.3	53.5	71.2	97.4
72.5°	34.3	49.7	50.3	112.1	164.3
75°	28.5	48.3	67.0	188.6	235.6
77.5°	23.3	48.1	125.4	249.6	294.4
80°	18.4	50.1	186.8	307.6	358.4
82.5°	13.7	71.6	235.7	376.0	429.9
85°	7.2	115.6	294.3	436.7	488.3
87.5°	0.3	149.5	344.7	487.7	536.0
90°	8.0	167.5	352.2	483.5	528.8
92.5°	23.3	191.1	383.4	518.9	564.8
95°	42.5	215.6	418.3	550.8	596.3
97.5°	68.4	237.8	444.7	588.4	634.9
100°	98.9	262.8	454.5	606.5	659.2
102.5°	129.4	282.6	471.2	611.4	663.3
105°	159.9	299.6	493.8	620.8	668.8
107.5°	190.2	315.0	511.7	639.8	683.0
110°	220.0	330.2	525.1	658.5	702.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	248.8	353.0	535.4	670.7	716.2
115°	276.7	372.1	542.3	677.7	724.0
117.5°	303.3	387.6	546.9	681.4	727.9
120°	328.8	402.0	549.6	681.4	728.5
122.5°	353.4	415.7	551.1	678.0	724.1
125°	377.0	428.7	561.6	673.9	714.6
127.5°	399.4	441.2	571.8	667.2	705.8
130°	420.6	453.2	579.3	658.8	697.7
132.5°	440.3	465.1	582.2	662.8	688.4
135°	459.6	476.9	582.9	665.9	690.5
137.5°	477.6	489.6	583.0	665.8	689.8
140°	494.6	502.1	582.6	660.4	686.6
142.5°	510.9	514.1	581.7	652.3	677.5
145°	525.9	525.7	580.8	643.7	665.8
147.5°	540.0	537.3	579.8	634.8	654.0
150°	552.9	549.0	579.5	625.8	642.2
152.5°	564.7	560.3	581.0	617.3	630.6
155°	575.8	571.1	584.3	609.8	619.9
157.5°	585.6	581.3	587.6	604.3	610.8
160°	594.1	590.3	591.2	602.6	604.9
162.5°	601.8	598.6	596.5	602.0	602.8
165°	608.4	605.8	602.8	602.4	601.3
167.5°	614.1	612.4	609.1	606.4	603.2
170°	618.7	618.2	614.9	611.8	608.1
172.5°	622.0	622.6	619.7	616.9	613.1
175°	624.4	625.1	624.3	621.6	617.6
177.5°	625.9	626.2	626.5	625.3	622.0
180°	625.7	625.7	625.7	625.7	625.7

(END OF REPORT)