

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: 175P158

Luminaire Tested: **BASIX PERF MONO 1 LIGHT**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P158
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX PERF MONO 1 LIGHT
Description: Basix Perf Mono Luminaire with perforated shield and lens.
Light Source: One - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic L.O.B.F. = Unknown

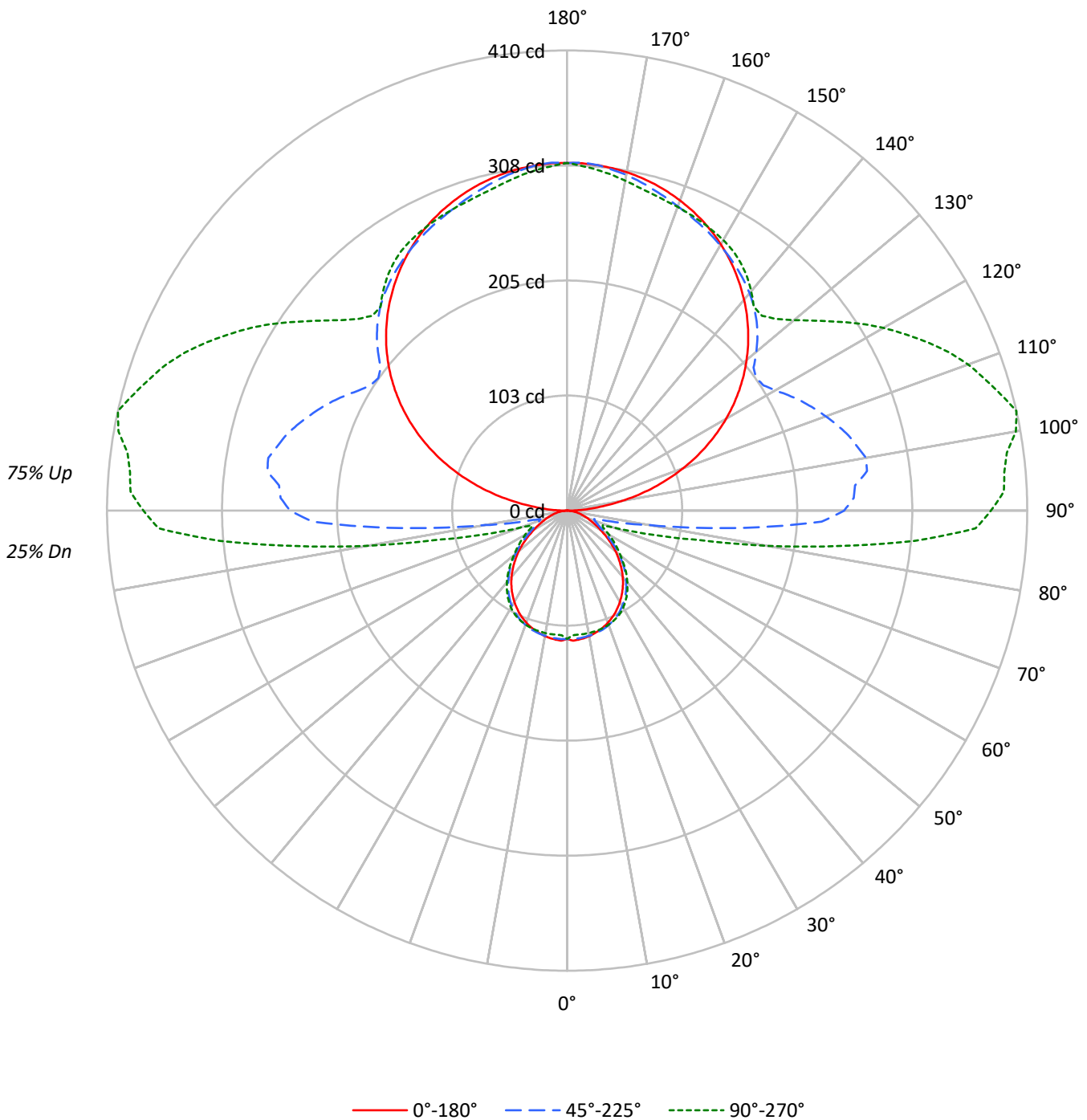
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 2054.3 lumens
Efficiency: 73.4%
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.8' x L: 4.01' x H: 0.29')
CIE Type: Semi-Indirect

Input Watts (W): 36
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	74	74	74	74	66	66	66	66	51	51	51	37	37	37	24	24	24	18
1	65	61	58	54	58	54	51	48	41	39	37	29	27	26	18	17	16	10
2	59	53	48	44	52	47	43	39	35	32	30	25	23	21	15	14	13	8
3	54	46	41	36	47	41	36	32	31	28	25	22	19	17	13	12	10	7
4	49	41	35	30	43	36	31	27	27	24	21	19	17	15	12	10	9	6
5	45	36	30	26	40	32	27	23	25	21	18	17	15	13	11	9	8	5
6	41	32	26	22	36	29	24	20	22	18	15	16	13	11	10	8	7	4
7	38	29	23	19	34	26	21	17	20	16	13	14	12	10	9	7	6	4
8	35	26	21	17	31	23	19	15	18	14	12	13	10	9	8	7	5	3
9	33	24	18	15	29	21	17	13	16	13	10	12	9	8	8	6	5	3
10	31	22	17	13	27	20	15	12	15	12	9	11	9	7	7	5	4	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	384	384	384
5°	387	375	362
10°	382	366	355
15°	377	358	348
20°	370	348	341
25°	361	337	333
30°	350	323	320
35°	336	306	303
40°	318	284	280
45°	296	260	254
50°	270	230	226
55°	238	198	201
60°	203	166	178
65°	175	147	156
70°	152	139	213
75°	130	196	482
80°	106	523	1139
85°	48	1454	2324



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	10.8	0.5	0.4	0°	114	114	114	114	114	
10°-20°	31.3	1.5	1.1	5°	116	115	114	113	111	11
20°-30°	47.7	2.3	1.7	15°	110	111	111	111	110	31
30°-40°	56.3	2.7	2.0	25°	101	102	104	106	105	46
40°-50°	54.5	2.7	1.9	35°	86	88	91	93	93	54
50°-60°	43.7	2.1	1.6	45°	67	69	72	73	73	52
60°-70°	31.9	1.6	1.1	55°	45	47	49	51	52	40
70°-80°	52.1	2.5	1.9	65°	26	30	31	33	35	26
80°-90°	176.2	8.6	6.3	75°	13	25	32	71	87	14
90°-100°	257.9	12.6	9.2	85°	2	54	170	273	310	3
100°-110°	260.6	12.7	9.3	90°	4	112	247	344	378	3
110°-120°	234.7	11.4	8.4	95°	22	123	258	356	391	24
120°-130°	204.5	10.0	7.3	105°	80	126	259	362	400	84
130°-140°	183.4	8.9	6.5	115°	138	149	230	321	354	136
140°-150°	165.1	8.0	5.9	125°	187	193	206	268	293	167
150°-160°	130.5	6.4	4.7	135°	228	227	239	239	246	176
160°-170°	83.9	4.1	3.0	145°	261	256	264	270	270	163
170°-180°	29.3	1.4	1.0	155°	285	281	281	284	284	131
0°-30°	89.9	4.4	3.2	165°	301	300	296	294	292	85
0°-40°	146.2	7.1	5.2	175°	309	310	309	307	305	29
0°-60°	244.3	11.9	8.7	180°	310	310	310	310	310	
0°-90°	504.5	24.6	18.0							
90°-120°	753.3	36.7	26.9							
90°-150°	1306.2	63.6	46.6							
90°-180°	1550.0	75.5	55.4							
0°-180°	2054.3	100.0	73.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	114.3	114.3	114.3	114.3	114.3
2.5°	116.0	115.7	114.7	112.8	111.1
5°	115.5	115.2	114.3	112.7	111.0
7.5°	114.7	114.5	113.8	112.5	111.0
10°	113.6	113.5	113.2	112.1	110.8
12.5°	112.1	112.3	112.5	111.7	110.5
15°	110.5	110.8	111.4	111.2	110.0
17.5°	108.6	109.1	110.2	110.2	109.3
20°	106.3	107.1	108.5	109.0	108.2
22.5°	103.7	104.7	106.6	107.5	106.7
25°	100.8	102.0	104.2	105.7	105.1
27.5°	97.5	98.8	101.4	103.4	102.9
30°	94.0	95.4	98.3	100.4	99.9
32.5°	90.1	91.7	94.8	96.9	96.5
35°	86.1	87.8	90.9	92.9	92.6
37.5°	81.7	83.4	86.5	88.6	88.3
40°	77.0	78.8	81.7	83.7	83.5
42.5°	72.1	73.9	76.7	78.5	78.4
45°	66.9	68.7	71.6	72.9	73.0
47.5°	61.6	63.4	66.1	67.2	67.3
50°	56.2	58.0	60.2	61.3	61.9
52.5°	50.5	52.6	54.3	55.6	56.9
55°	44.9	47.3	48.6	50.6	52.2
57.5°	39.3	42.2	42.9	45.9	47.6
60°	34.1	37.5	38.0	41.5	43.2
62.5°	29.5	33.6	34.0	37.4	38.9
65°	25.5	30.3	30.7	33.4	34.9
67.5°	21.9	27.9	28.2	30.2	34.4
70°	18.6	26.3	26.2	33.9	43.4
72.5°	15.5	25.2	25.1	48.2	62.5
75°	12.7	25.1	32.5	71.4	87.4
77.5°	10.1	25.6	51.8	96.4	121.3
80°	7.7	26.6	74.3	146.6	180.1
82.5°	5.2	36.1	117.0	207.2	242.4
85°	2.3	53.8	170.5	272.7	310.5
87.5°	0.1	88.3	226.9	328.2	364.3
90°	3.6	111.5	246.9	344.0	377.7
92.5°	11.9	113.9	255.5	355.1	389.5
95°	21.8	123.2	257.6	356.3	391.0
97.5°	34.7	123.2	269.5	362.1	395.1
100°	49.8	123.7	270.4	373.9	406.0
102.5°	65.0	124.4	264.5	372.0	410.0
105°	80.2	125.5	259.4	362.5	400.0
107.5°	95.0	125.6	252.6	354.6	390.1
110°	109.8	127.4	245.3	345.2	380.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.0	135.6	238.1	333.9	368.3
115°	137.6	148.9	230.5	321.3	354.5
117.5°	150.9	161.4	222.4	308.5	340.0
120°	163.5	172.7	214.1	295.3	325.5
122.5°	175.7	183.1	207.6	281.8	309.9
125°	187.3	192.9	205.5	268.4	293.3
127.5°	198.3	202.1	209.4	255.0	277.9
130°	208.7	210.9	220.1	244.1	263.8
132.5°	218.6	219.4	230.0	238.1	252.6
135°	228.0	227.4	238.7	239.1	245.5
137.5°	236.9	235.1	246.5	248.3	246.2
140°	245.3	242.4	252.9	256.8	255.2
142.5°	253.1	249.5	258.5	264.0	263.1
145°	260.6	256.4	263.7	269.9	269.5
147.5°	267.5	263.2	268.5	274.2	274.7
150°	273.9	269.6	272.9	277.7	278.3
152.5°	279.8	275.5	277.1	280.8	281.1
155°	285.1	281.3	281.0	283.7	283.6
157.5°	289.8	286.7	284.6	286.2	285.8
160°	294.1	291.5	288.5	288.7	287.9
162.5°	297.8	295.9	292.4	291.0	289.8
165°	301.1	299.8	296.3	293.9	292.1
167.5°	303.9	303.2	300.2	297.1	295.0
170°	306.1	306.1	303.7	300.7	298.4
172.5°	307.7	308.5	306.5	304.1	301.9
175°	309.0	309.7	309.1	306.9	304.8
177.5°	309.7	310.3	310.3	309.0	307.3
180°	309.7	309.7	309.7	309.7	309.7

(END OF REPORT)