

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: 175P156

Luminaire Tested: **BASIX HALF ROUND 1 Light**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P156
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX HALF ROUND 1 Light
Description: Basix Half-Round 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

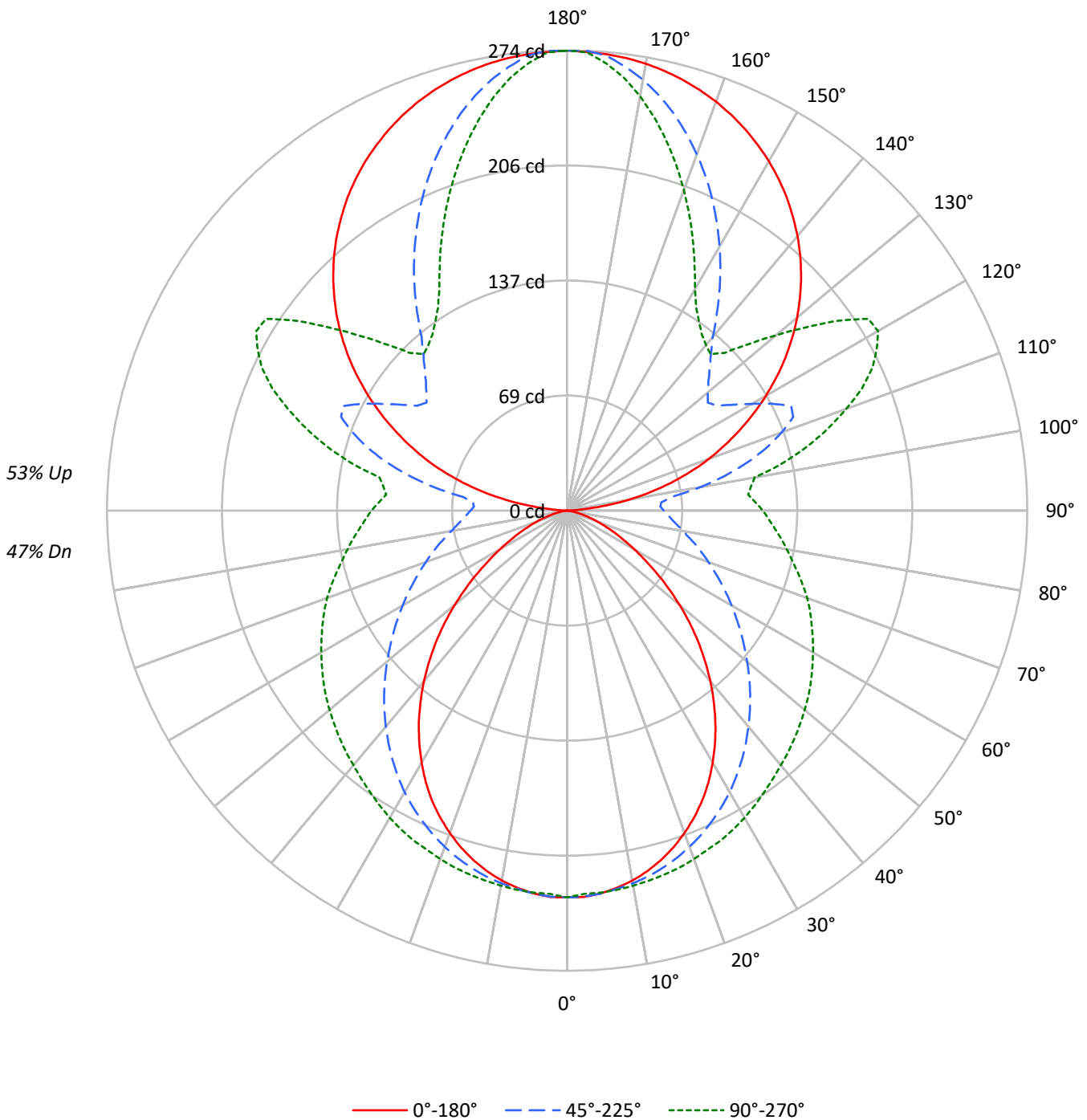
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1618.7 lumens
Efficiency: 57.8%
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.37 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.43' x L: 4.01' x H: 0.21')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	62	62	62	62	57	57	57	57	47	47	47	39	39	39	31	31	31	27				
1	55	52	50	47	51	48	46	44	40	38	37	33	31	30	26	25	24	21				
2	50	45	41	38	46	41	38	35	35	32	30	28	26	25	22	21	20	17				
3	45	39	35	31	41	36	32	29	30	27	25	25	22	21	20	18	16	14				
4	41	35	30	26	38	32	28	24	27	23	21	22	19	17	17	16	14	12				
5	38	31	26	22	35	28	24	21	24	20	18	20	17	15	16	14	12	10				
6	35	28	23	19	32	25	21	18	21	18	15	18	15	13	14	12	11	9				
7	32	25	20	17	29	23	19	16	19	16	14	16	13	11	13	11	9	8				
8	30	23	18	15	27	21	17	14	18	14	12	15	12	10	12	10	8	7				
9	28	21	16	13	25	19	15	12	16	13	11	13	11	9	11	9	7	6				
10	26	19	15	12	24	17	14	11	15	12	10	12	10	8	10	8	7	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1438	1438	1438
5°	1427	1388	1372
10°	1405	1339	1324
15°	1373	1291	1282
20°	1332	1243	1245
25°	1280	1192	1215
30°	1213	1143	1188
35°	1131	1090	1162
40°	1036	1036	1144
45°	924	984	1136
50°	798	933	1134
55°	661	888	1136
60°	529	850	1144
65°	413	818	1159
70°	305	797	1185
75°	200	789	1214
80°	97	793	1266
85°	22	838	1352



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	21.7	1.3	0.8	0°	230	230	230	230	230	
10°-20°	62.1	3.8	2.2	5°	229	229	229	230	228	22
20°-30°	93.9	5.8	3.4	15°	216	217	220	224	224	61
30°-40°	112.9	7.0	4.0	25°	190	194	204	214	217	87
40°-50°	117.9	7.3	4.2	35°	154	162	181	199	205	96
50°-60°	111.0	6.9	4.0	45°	110	124	154	181	192	85
60°-70°	97.2	6.0	3.5	55°	65	85	126	163	177	59
70°-80°	81.8	5.1	2.9	65°	31	50	101	144	161	31
80°-90°	68.7	4.2	2.5	75°	10	28	79	125	142	11
90°-100°	68.8	4.2	2.5	85°	0	18	63	107	124	1
100°-110°	110.7	6.8	4.0	90°	0	17	58	100	116	0
110°-120°	137.5	8.5	4.9	95°	10	29	56	93	108	14
120°-130°	127.2	7.9	4.5	105°	64	71	111	138	148	67
130°-140°	110.2	6.8	3.9	115°	113	72	147	187	200	112
140°-150°	106.3	6.6	3.8	125°	159	107	109	171	197	142
150°-160°	96.1	5.9	3.4	135°	197	155	120	122	133	152
160°-170°	69.1	4.3	2.5	145°	228	198	158	140	137	143
170°-180°	25.5	1.6	0.9	155°	251	233	204	185	177	116
0°-30°	177.8	11.0	6.3	165°	266	259	245	233	228	75
0°-40°	290.7	18.0	10.4	175°	273	273	272	269	267	26
0°-60°	519.6	32.1	18.6	180°	274	274	274	274	274	
0°-90°	767.2	47.4	27.4							
90°-120°	317.0	19.6	11.3							
90°-150°	660.7	40.8	23.6							
90°-180°	851.0	52.6	30.4							
0°-180°	1618.7	100.0	57.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	230.3	230.3	230.3	230.3	230.3
2.5°	230.3	230.1	230.1	230.0	228.5
5°	228.8	228.7	228.9	229.5	228.3
7.5°	226.6	226.6	227.2	228.4	227.7
10°	223.7	224.1	225.4	227.0	226.8
12.5°	220.0	220.8	223.1	225.5	225.6
15°	215.5	216.8	220.2	223.8	224.3
17.5°	210.3	212.2	216.9	221.6	222.8
20°	204.3	206.8	213.1	218.9	220.8
22.5°	197.7	200.9	208.8	216.3	218.5
25°	190.4	194.4	204.0	213.6	216.6
27.5°	182.3	187.2	199.0	210.5	214.1
30°	173.3	179.5	193.6	207.0	211.2
32.5°	163.9	171.2	187.6	203.2	208.0
35°	153.9	162.5	181.3	199.0	204.6
37.5°	143.4	153.3	174.7	194.7	201.3
40°	132.7	143.9	167.9	190.1	198.0
42.5°	121.5	134.3	161.1	185.6	194.9
45°	110.2	124.4	154.1	181.2	191.6
47.5°	98.8	114.5	147.0	176.8	188.1
50°	87.3	104.6	139.9	172.2	184.7
52.5°	76.1	94.7	132.9	167.6	181.1
55°	65.3	85.0	126.2	163.0	177.2
57.5°	55.2	75.5	119.5	158.2	173.1
60°	46.2	66.4	113.2	153.6	169.1
62.5°	38.1	57.9	106.9	148.8	164.9
65°	31.1	50.1	100.8	144.1	160.7
67.5°	24.8	43.2	95.0	139.5	156.5
70°	19.1	37.3	89.5	134.9	152.1
72.5°	14.1	32.4	84.3	129.9	147.1
75°	9.9	28.3	79.4	124.6	142.1
77.5°	6.3	24.8	74.4	119.7	137.2
80°	3.5	22.2	69.9	115.2	132.8
82.5°	1.6	20.1	66.1	111.0	128.6
85°	0.5	18.5	62.8	106.8	124.2
87.5°	0.2	17.7	59.9	103.0	120.2
90°	0.1	17.4	57.5	99.8	116.5
92.5°	1.9	18.9	55.5	96.0	112.2
95°	10.2	29.1	56.3	93.2	108.2
97.5°	23.5	44.1	62.5	95.4	110.4
100°	37.2	56.8	80.8	103.5	113.4
102.5°	50.9	68.0	96.7	122.0	132.1
105°	64.1	71.2	111.4	137.6	148.3
107.5°	77.1	67.8	124.6	152.3	163.1
110°	89.7	65.0	135.9	165.8	176.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.5	65.7	145.7	177.9	190.0
115°	113.4	71.7	147.2	187.1	200.4
117.5°	125.1	78.7	137.7	194.3	207.8
120°	136.6	86.6	127.0	197.4	213.8
122.5°	147.8	95.5	117.2	186.6	212.5
125°	158.6	106.8	108.9	171.0	197.1
127.5°	168.9	119.0	105.6	155.4	179.1
130°	178.8	131.2	109.4	140.9	162.4
132.5°	188.1	143.2	114.1	128.6	146.7
135°	197.0	154.9	120.0	122.2	132.9
137.5°	205.4	166.3	126.7	124.6	126.3
140°	213.4	177.1	134.9	128.2	128.6
142.5°	220.7	187.7	146.1	133.4	131.9
145°	227.8	197.8	157.9	139.6	136.9
147.5°	234.3	207.4	169.8	147.8	143.1
150°	240.2	216.6	181.5	159.5	152.1
152.5°	245.6	225.2	193.1	171.9	164.3
155°	250.6	233.3	204.5	184.6	177.2
157.5°	255.1	240.7	215.4	197.3	190.2
160°	259.1	247.6	225.8	209.6	203.1
162.5°	262.6	253.7	235.6	221.7	215.8
165°	265.6	259.1	244.8	233.2	228.1
167.5°	268.1	264.0	253.1	244.0	239.7
170°	270.2	268.5	260.4	253.9	250.4
172.5°	271.7	271.8	266.4	262.4	259.8
175°	272.7	273.2	271.8	269.2	267.2
177.5°	273.3	273.6	273.9	274.1	273.0
180°	273.9	273.9	273.9	273.9	273.9

(END OF REPORT)