

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: 175P151

Luminaire Tested: **BASIX PERF UPLIGHT OPTIC**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 175P151
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: BASIX PERF UPLIGHT OPTIC
Description: Perf Uplight Optic of the Basix Project with
perferated shield and lens.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic L.O.B.F. = Unkown

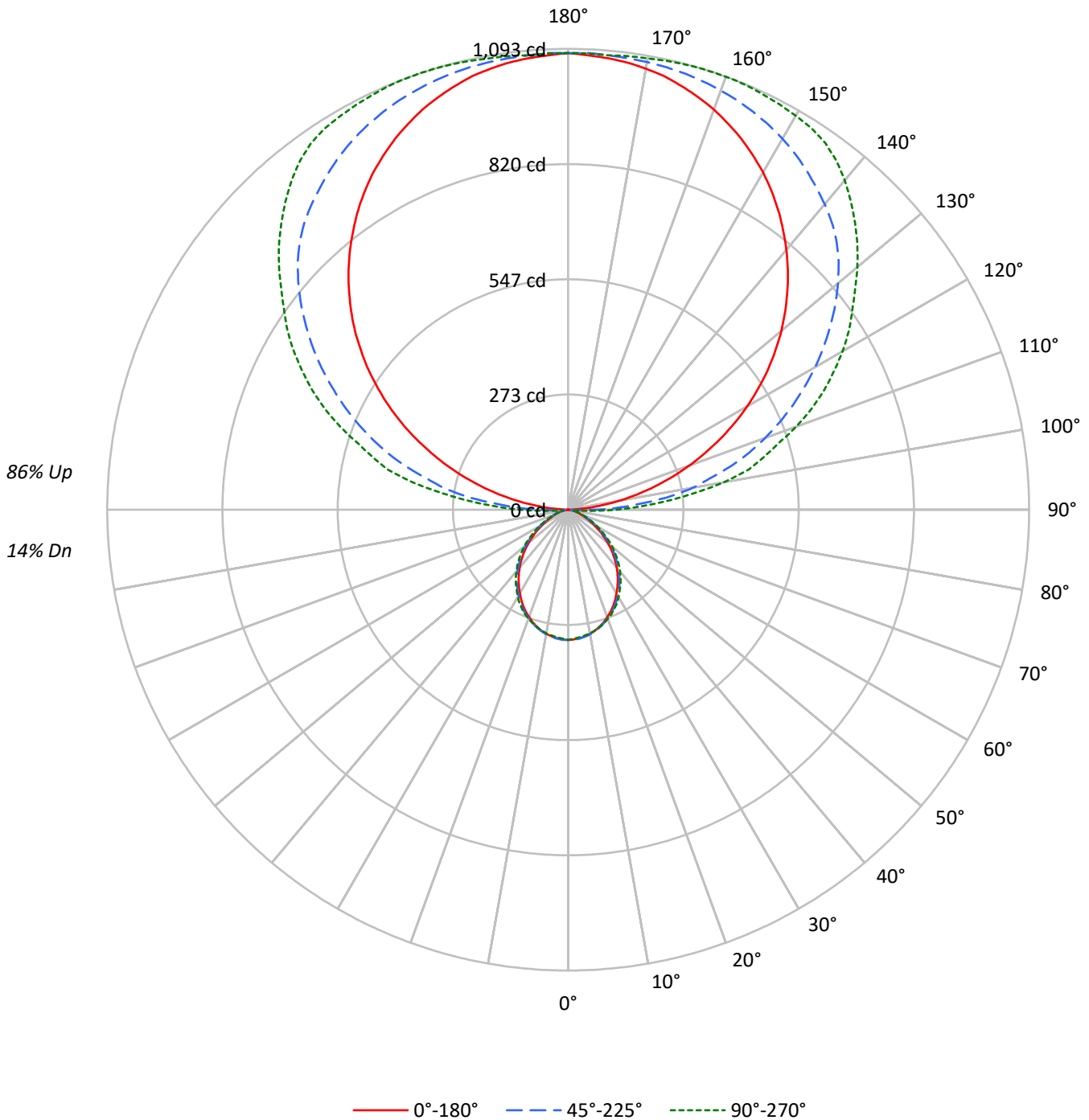
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4637.7 lumens
Efficiency: 82.8%
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.16 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 1.06' x L: 4.02' x H: 0.17')
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	82	82	82	82	72	72	72	72	53	53	53	35	35	35	19	19	19	12
1	74	71	68	65	65	62	60	58	46	44	43	31	30	29	17	17	16	10
2	68	62	57	53	59	55	51	47	40	38	36	27	26	25	15	15	14	9
3	62	55	49	45	54	48	43	40	36	33	30	24	22	21	14	13	12	8
4	57	48	42	38	49	43	37	34	32	28	26	22	20	18	12	11	10	7
5	52	43	37	32	45	38	33	29	28	25	22	19	17	16	11	10	9	6
6	48	38	32	28	42	34	29	25	25	22	19	17	15	14	10	9	8	5
7	44	34	28	24	38	30	25	22	23	19	17	16	14	12	9	8	7	5
8	41	31	25	21	35	28	22	19	21	17	15	14	12	11	8	7	6	4
9	38	28	22	19	33	25	20	17	19	15	13	13	11	9	8	7	6	4
10	35	26	20	16	31	23	18	15	17	14	12	12	10	8	7	6	5	3

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	781	781	781
5°	773	769	760
10°	761	751	743
15°	742	728	722
20°	717	700	698
25°	689	669	672
30°	652	633	638
35°	614	594	599
40°	570	547	555
45°	518	494	505
50°	456	440	452
55°	390	373	383
60°	315	308	316
65°	258	238	245
70°	205	185	185
75°	160	140	140
80°	94	96	107
85°	20	77	215



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	29.0	0.6	0.5	0°	309	309	309	309	309	
10°-20°	81.2	1.8	1.4	5°	306	307	307	306	304	29
20°-30°	117.6	2.5	2.1	15°	287	288	289	289	288	81
30°-40°	131.6	2.8	2.4	25°	252	253	256	258	259	116
40°-50°	121.8	2.6	2.2	35°	205	207	212	214	216	128
50°-60°	90.7	2.0	1.6	45°	151	154	158	163	164	116
60°-70°	52.1	1.1	0.9	55°	94	96	102	106	107	84
70°-80°	23.2	0.5	0.4	65°	47	49	52	54	55	47
80°-90°	22.5	0.5	0.4	75°	19	21	22	22	23	20
90°-100°	183.0	3.9	3.3	85°	1	4	7	16	21	2
100°-110°	400.2	8.6	7.1	90°	0	27	69	101	113	2
110°-120°	561.6	12.1	10.0	95°	45	125	179	219	235	53
120°-130°	655.1	14.1	11.7	105°	212	315	400	453	479	224
130°-140°	673.9	14.5	12.0	115°	398	504	588	647	669	394
140°-150°	610.5	13.2	10.9	125°	578	663	759	808	822	516
150°-160°	478.0	10.3	8.5	135°	735	798	900	949	962	567
160°-170°	302.3	6.5	5.4	145°	868	909	984	1044	1062	543
170°-180°	103.1	2.2	1.8	155°	971	994	1040	1078	1088	447
0°-30°	227.8	4.9	4.1	165°	1040	1049	1071	1088	1092	294
0°-40°	359.5	7.8	6.4	175°	1075	1078	1082	1086	1082	102
0°-60°	572.0	12.3	10.2	180°	1083	1083	1083	1083	1083	
0°-90°	669.9	14.4	12.0							
90°-120°	1144.8	24.7	20.4							
90°-150°	3084.4	66.5	55.1							
90°-180°	3968.0	85.6	70.9							
0°-180°	4637.7	100.0	82.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	309	309	309	309	309
2.5°	308	309	309	308	306
5°	306	307	307	306	304
7.5°	303	304	304	303	301
10°	299	300	300	299	298
12.5°	294	294	295	294	293
15°	287	288	289	289	288
17.5°	280	281	282	283	282
20°	271	273	274	275	275
22.5°	262	264	266	267	268
25°	252	253	256	258	259
27.5°	241	243	246	248	250
30°	229	232	235	238	239
32.5°	217	220	224	226	227
35°	205	207	212	214	216
37.5°	192	195	199	201	204
40°	179	181	186	189	191
42.5°	165	168	172	177	178
45°	151	154	158	163	164
47.5°	137	139	145	149	150
50°	122	125	131	135	137
52.5°	108	111	116	121	122
55°	94	96	102	106	107
57.5°	80	83	88	92	93
60°	67	70	76	79	80
62.5°	56	58	64	66	67
65°	47	49	52	54	55
67.5°	39	41	43	44	45
70°	31	34	35	36	36
72.5°	25	28	28	28	29
75°	19	21	22	22	23
77.5°	13	15	16	17	18
80°	8	10	12	13	14
82.5°	4	6	8	10	11
85°	1	4	7	16	21
87.5°	0	4	25	51	61
90°	0	27	69	101	113
92.5°	13	71	121	156	169
95°	45	125	179	219	235
97.5°	82	172	246	286	301
100°	123	222	301	357	374
102.5°	167	268	344	414	437
105°	212	315	400	453	479
107.5°	258	363	450	503	522
110°	305	410	497	556	575



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351	458	543	603	624
115°	398	504	588	647	669
117.5°	445	549	632	689	710
120°	490	590	676	730	751
122.5°	534	627	718	769	789
125°	578	663	759	808	822
127.5°	619	698	798	846	857
130°	660	733	835	881	895
132.5°	698	766	870	916	930
135°	735	798	900	949	962
137.5°	771	828	925	980	992
140°	805	857	946	1007	1020
142.5°	837	884	965	1029	1044
145°	868	909	984	1044	1062
147.5°	897	933	1001	1055	1073
150°	924	955	1016	1063	1079
152.5°	948	976	1029	1071	1084
155°	971	994	1040	1078	1088
157.5°	991	1010	1050	1083	1092
160°	1010	1025	1058	1086	1093
162.5°	1026	1038	1065	1088	1093
165°	1040	1049	1071	1088	1092
167.5°	1053	1059	1075	1088	1090
170°	1062	1067	1078	1087	1087
172.5°	1070	1073	1080	1086	1085
175°	1075	1078	1082	1086	1082
177.5°	1079	1081	1084	1086	1083
180°	1083	1083	1083	1083	1083

(END OF REPORT)