

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: 117P105

Luminaire Tested: **2GCAML-332S613I-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 117P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAML-332S613I-PAF
Description: 2 X 4 Recessed Air Supply Troffer with an ALP 1.5" deep
78 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

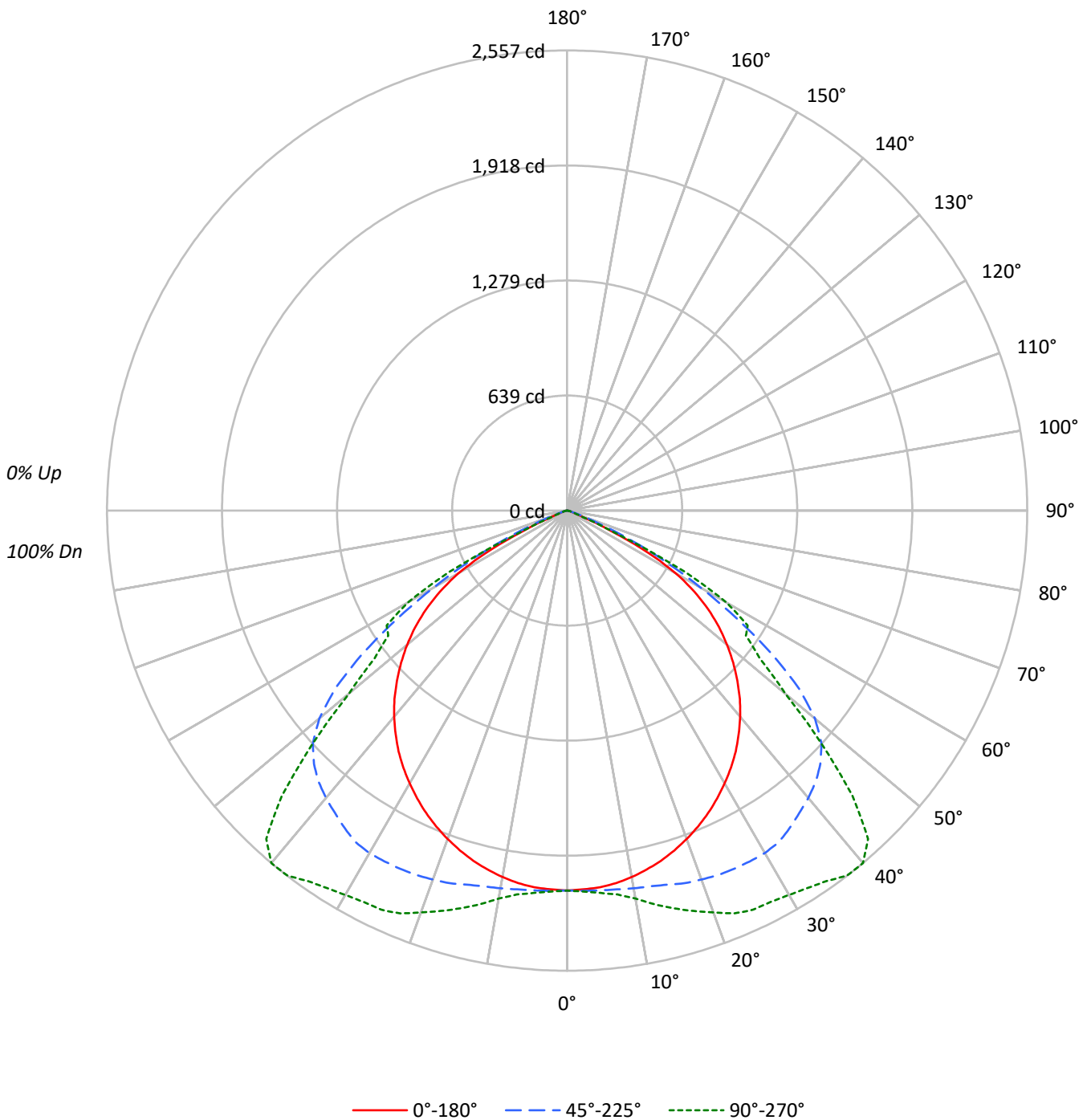
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6130.7 lumens
Efficiency: 71.7%
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.77 / 1.62
Luminous Opening: Rectangular (W 1.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 85.3
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									
RC	80									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	50	30	10	0													
RCR																																					
0	85	85	85	85	83	83	83	83	80	80	80	76	76	76	73	73	73	72						72													
1	80	77	74	72	78	75	73	71	72	70	69	69	68	67	67	66	65	63						63													
2	73	68	64	61	72	67	63	60	65	61	59	62	60	57	60	58	56	55						55													
3	67	61	56	51	66	60	55	51	58	53	50	56	52	49	54	51	48	47						47													
4	62	54	48	44	60	53	48	44	51	47	43	50	46	43	48	45	42	41						41													
5	57	48	42	38	56	48	42	38	46	41	37	45	41	37	44	40	37	35						35													
6	53	44	38	33	51	43	37	33	42	37	33	41	36	33	39	35	32	31						31													
7	49	39	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27						27													
8	45	36	30	26	44	35	30	26	35	29	26	34	29	26	33	29	26	24						24													
9	42	33	27	23	41	32	27	23	32	27	23	31	26	23	30	26	23	22						22													
10	39	30	25	21	39	30	25	21	29	24	21	29	24	21	28	24	21	20						20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3483	3483	3483
5°	3480	3508	3533
10°	3465	3570	3668
15°	3440	3676	3908
20°	3410	3831	4172
25°	3375	3998	4455
30°	3334	4186	4698
35°	3289	4341	5062
40°	3220	4491	5508
45°	3120	4644	5232
50°	2980	4613	4064
55°	2756	3996	3489
60°	2307	2828	3379
65°	1089	1566	1203
70°	222	449	232
75°	134	147	134
80°	105	105	95
85°	95	95	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	202.4	3.3	2.4	0°	2111	2111	2111	2111	2111	
10°-20°	610.1	10.0	7.1	5°	2101	2103	2118	2127	2133	200
20°-30°	1002.6	16.4	11.7	15°	2014	2049	2152	2253	2288	568
30°-40°	1326.4	21.6	15.5	25°	1854	1959	2196	2385	2447	854
40°-50°	1450.1	23.7	17.0	35°	1633	1839	2155	2393	2513	1020
50°-60°	1098.2	17.9	12.8	45°	1337	1630	1990	2247	2242	1030
60°-70°	406.7	6.6	4.8	55°	958	1244	1389	1176	1213	846
70°-80°	28.9	0.5	0.3	65°	279	416	401	399	308	309
80°-90°	5.5	0.1	0.1	75°	21	24	23	22	21	25
90°-100°	0.0	0.0	0.0	85°	5	5	5	4	4	5
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1815.0	29.6	21.2	165°	0	0	0	0	0	0
0°-40°	3141.4	51.2	36.7	175°	0	0	0	0	0	0
0°-60°	5689.7	92.8	66.5	180°	0	0	0	0	0	0
0°-90°	6130.7	100.0	71.7							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	6130.7	100.0	71.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2111	2111	2111	2111	2111
2.5°	2107	2106	2115	2116	2119
5°	2101	2103	2118	2127	2133
7.5°	2088	2096	2123	2143	2152
10°	2068	2084	2131	2170	2189
12.5°	2043	2068	2138	2212	2241
15°	2014	2049	2152	2253	2288
17.5°	1980	2028	2171	2292	2333
20°	1942	2005	2182	2324	2376
22.5°	1900	1983	2192	2356	2423
25°	1854	1959	2196	2385	2447
27.5°	1804	1934	2198	2391	2451
30°	1750	1906	2197	2383	2466
32.5°	1694	1875	2186	2387	2486
35°	1633	1839	2155	2393	2513
37.5°	1566	1798	2119	2399	2556
40°	1495	1749	2085	2412	2557
42.5°	1421	1694	2044	2370	2475
45°	1337	1630	1990	2247	2242
47.5°	1251	1559	1917	1995	1919
50°	1161	1475	1797	1678	1583
52.5°	1064	1371	1625	1376	1349
55°	958	1244	1389	1176	1213
57.5°	839	1095	1121	1042	1189
60°	699	914	857	931	1024
62.5°	509	686	621	688	739
65°	279	416	401	399	308
67.5°	103	177	205	130	89
70°	46	67	93	52	48
72.5°	29	36	37	32	31
75°	21	24	23	22	21
77.5°	15	17	16	15	14
80°	11	12	11	11	10
82.5°	8	8	8	7	6
85°	5	5	5	4	4
87.5°	3	3	2	2	2
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)