

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: 104P208

Luminaire Tested: **2EP3GX-332S48I-2NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P208
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S48I-2NSBC-PAF
Description: 2 X 4 Recessed Troffer with a 3" deep 32 cell
semi-specular low iridescent parabolic louver
and 2 no shadow ballast covers.
Light Source: Three-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

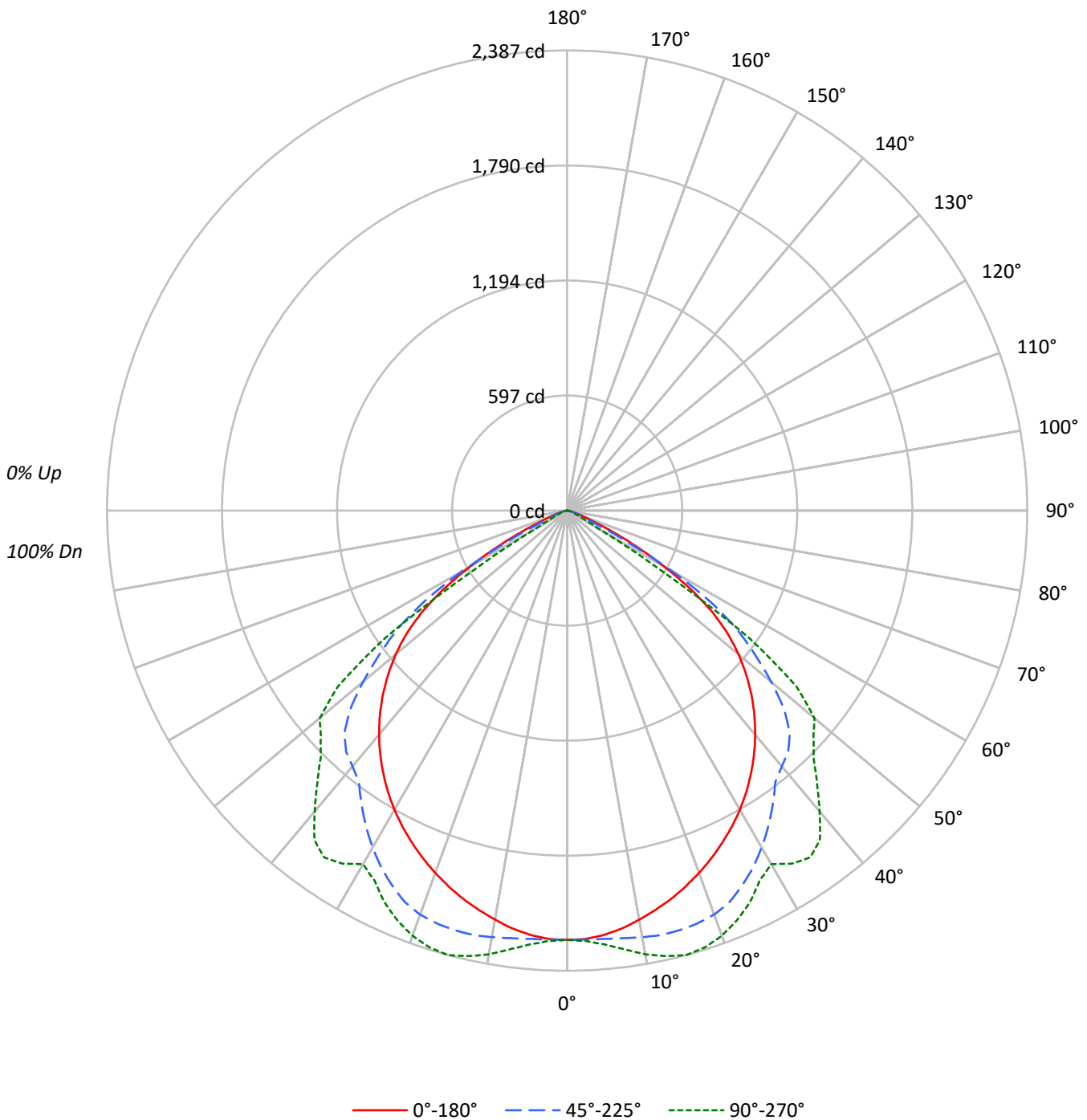
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 5392.8 lumens
Efficiency: 63.1%
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.49 / 1.44
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 89.9
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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	70	68	66	64	69	66	65	63	64	62	61		61	60	59		59	58	57	56
2	65	61	57	54	63	60	56	54	57	55	52		55	53	51		54	52	50	49
3	60	54	50	47	59	53	49	46	52	48	45		50	47	45		48	46	44	43
4	55	49	44	40	54	48	43	40	46	43	39		45	42	39		44	41	38	37
5	51	44	39	35	50	43	38	35	42	38	35		41	37	34		40	36	34	33
6	47	40	35	31	46	39	34	31	38	34	31		37	33	30		36	33	30	29
7	44	36	31	27	43	36	31	27	35	30	27		34	30	27		33	30	27	26
8	41	33	28	25	40	33	28	25	32	27	24		31	27	24		30	27	24	23
9	38	30	25	22	37	30	25	22	29	25	22		29	25	22		28	24	22	21
10	36	28	23	20	35	28	23	20	27	23	20		26	23	20		26	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3670	3670	3670
5°	3654	3688	3736
10°	3606	3760	3910
15°	3557	3843	4072
20°	3507	3910	4114
25°	3458	3903	4076
30°	3410	3840	4028
35°	3345	3741	4419
40°	3265	3725	4384
45°	3150	3808	4211
50°	2976	3543	4294
55°	2646	3097	3318
60°	1925	2070	593
65°	1006	628	277
70°	419	318	178
75°	255	216	127
80°	161	161	85
85°	95	95	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	213.4	4.0	2.5	0°	2227	2227	2227	2227	2227	
10°-20°	632.8	11.7	7.4	5°	2209	2213	2230	2247	2259	209
20°-30°	970.8	18.0	11.4	15°	2085	2136	2253	2344	2387	588
30°-40°	1191.0	22.1	13.9	25°	1902	2023	2147	2200	2242	877
40°-50°	1229.8	22.8	14.4	35°	1663	1819	1860	2039	2197	1040
50°-60°	900.7	16.7	10.5	45°	1352	1475	1634	1698	1807	1040
60°-70°	209.1	3.9	2.4	55°	921	1004	1078	1132	1155	804
70°-80°	38.7	0.7	0.5	65°	258	280	161	93	71	281
80°-90°	6.4	0.1	0.1	75°	40	44	34	27	20	47
90°-100°	0.0	0.0	0.0	85°	5	6	5	4	3	7
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°	1817.1	33.7	21.3	165°	0	0	0	0	0	0
0°-40°	3008.1	55.8	35.2	175°	0	0	0	0	0	0
0°-60°	5138.6	95.3	60.1	180°	0	0	0	0	0	0
0°-90°	5392.8	100.0	63.1							
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°	5392.8	100.0	63.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227	2227	2227	2227	2227
2.5°	2224	2223	2227	2230	2235
5°	2209	2213	2230	2247	2259
7.5°	2186	2197	2237	2276	2296
10°	2155	2177	2247	2310	2337
12.5°	2121	2157	2255	2332	2367
15°	2085	2136	2253	2344	2387
17.5°	2044	2113	2246	2341	2376
20°	2000	2087	2230	2306	2346
22.5°	1953	2059	2199	2259	2301
25°	1902	2023	2147	2200	2242
27.5°	1849	1982	2088	2127	2164
30°	1792	1934	2018	2039	2117
32.5°	1730	1880	1942	2013	2171
35°	1663	1819	1860	2039	2197
37.5°	1593	1745	1774	2030	2154
40°	1518	1660	1732	1960	2038
42.5°	1438	1571	1697	1832	1918
45°	1352	1475	1634	1698	1807
47.5°	1259	1373	1527	1588	1733
50°	1161	1265	1382	1496	1675
52.5°	1051	1146	1229	1374	1500
55°	921	1004	1078	1132	1155
57.5°	762	836	882	775	583
60°	584	633	628	317	180
62.5°	408	436	343	141	104
65°	258	280	161	93	71
67.5°	143	164	93	67	51
70°	87	95	66	50	37
72.5°	59	63	48	37	27
75°	40	44	34	27	20
77.5°	27	30	24	20	14
80°	17	20	17	14	9
82.5°	10	12	10	9	6
85°	5	6	5	4	3
87.5°	1	1	1	1	0
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)