

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: 109P161

Luminaire Tested: **2PGX-3U15/8S34I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 109P161
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-3U15/8S34I-PAF
Description: 2 X 2 Recessed Troffer with a 4" deep 12 cell
semi-specular low iridescent parabolic louver.
Light Source: Three-FO32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Two-Triad-Utrad B232I120RH Electronic

Summary

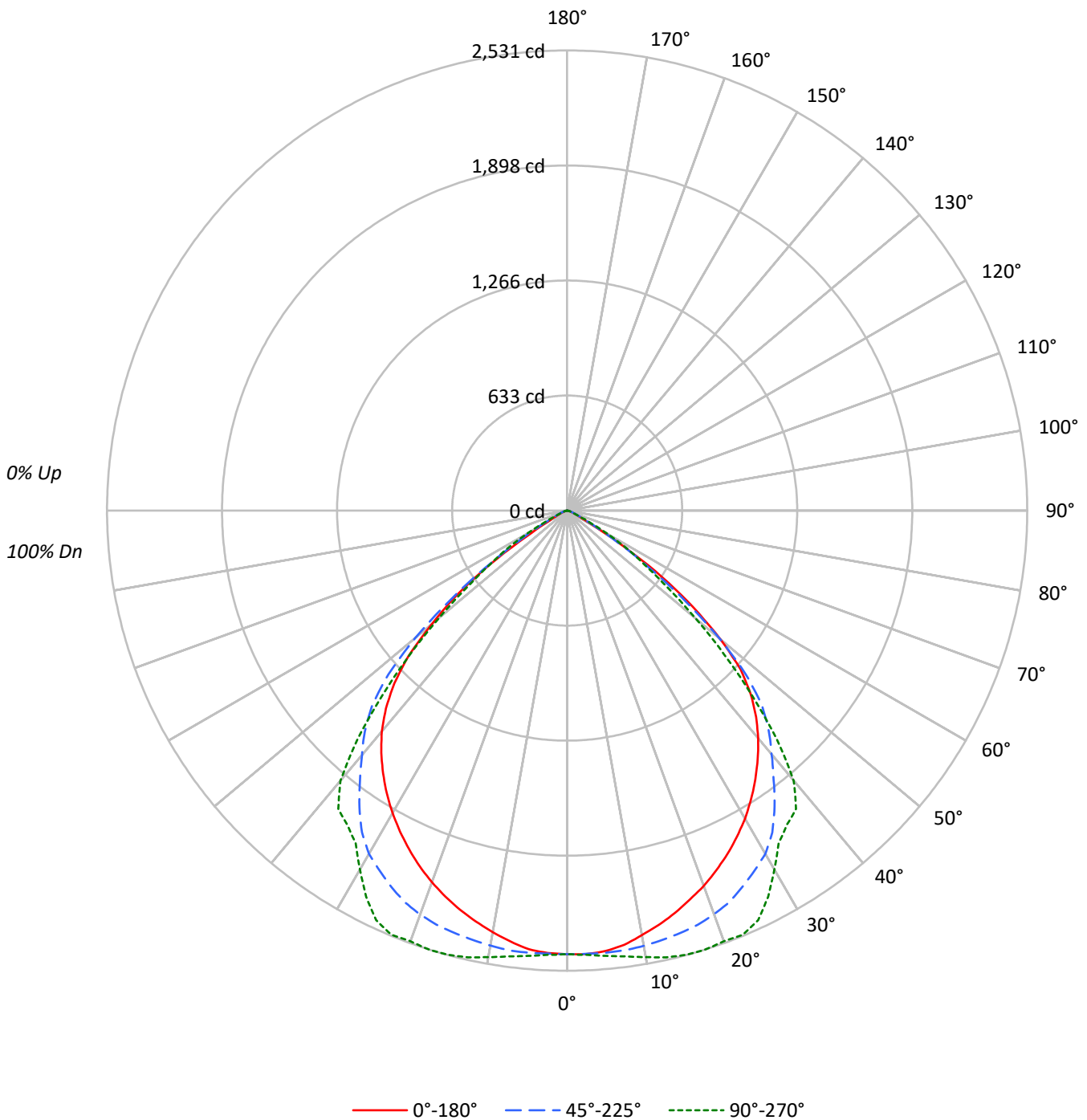
Lumens per Lamp: 2750 (3 lamps)
Luminaire Lumens: 4925.9 lumens
Efficiency: 59.7%
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.34
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 87.6
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	71	71	71	71	69	69	69	69	66	66	66	64	64	64	61	61	61	60
1	67	65	63	61	65	63	62	60	61	60	58	59	58	57	57	56	55	54
2	62	59	56	53	61	58	55	52	56	53	51	54	52	50	52	50	49	48
3	58	53	49	46	57	52	49	46	50	47	45	49	46	44	47	45	44	42
4	54	48	44	41	53	47	43	40	46	42	40	45	42	39	43	41	39	38
5	50	44	39	36	49	43	39	36	42	38	35	41	38	35	40	37	35	34
6	47	40	35	32	46	39	35	32	38	34	32	37	34	31	36	33	31	30
7	43	36	32	29	43	36	32	29	35	31	28	34	31	28	34	30	28	27
8	41	33	29	26	40	33	29	26	32	28	26	32	28	26	31	28	25	24
9	38	31	27	24	37	31	26	23	30	26	23	29	26	23	29	26	23	22
10	36	29	24	21	35	28	24	21	28	24	21	27	24	21	27	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	8576	8576	8576
5°	8581	8676	8546
10°	8462	8901	8405
15°	8337	9206	8271
20°	8218	9430	8135
25°	8086	9641	7974
30°	7939	9254	7793
35°	7745	9049	7573
40°	7497	8897	7277
45°	7098	7158	6676
50°	6020	5031	5321
55°	3922	3187	3205
60°	1195	1828	815
65°	474	549	391
70°	288	319	247
75°	204	217	177
80°	142	162	121
85°	81	121	40



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	232.7	4.7	2.8	0°	2440	2440	2440	2440	2440	
10°-20°	680.0	13.8	8.2	5°	2432	2441	2459	2441	2422	230
20°-30°	1048.2	21.3	12.7	15°	2291	2405	2530	2404	2273	646
30°-40°	1228.3	24.9	14.9	25°	2085	2283	2486	2286	2056	960
40°-50°	1108.4	22.5	13.4	35°	1805	1989	2109	1993	1765	1128
50°-60°	518.9	10.5	6.3	45°	1428	1515	1440	1518	1343	1084
60°-70°	85.8	1.7	1.0	55°	640	564	520	553	523	558
70°-80°	19.9	0.4	0.2	65°	57	71	66	69	47	70
80°-90°	3.7	0.1	0.0	75°	15	20	16	19	13	16
90°-100°	0.0	0.0	0.0	85°	2	3	3	3	1	3
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°	1960.9	39.8	23.8	165°	0	0	0	0	0	0
0°-40°	3189.2	64.7	38.7	175°	0	0	0	0	0	0
0°-60°	4816.4	97.8	58.4	180°	0	0	0	0	0	0
0°-90°	4925.9	100.0	59.7							
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°	4925.9	100.0	59.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2440	2440	2440	2440	2440	2440	2440	2440	2440
2.5°	2442	2438	2440	2445	2446	2444	2439	2439	2436
5°	2432	2431	2441	2454	2459	2452	2441	2433	2422
7.5°	2409	2411	2439	2465	2473	2463	2440	2414	2391
10°	2371	2382	2431	2478	2494	2476	2430	2385	2355
12.5°	2333	2351	2419	2494	2517	2493	2417	2353	2316
15°	2291	2317	2405	2501	2530	2500	2404	2320	2273
17.5°	2243	2282	2389	2495	2531	2495	2388	2283	2227
20°	2197	2242	2363	2473	2521	2471	2364	2242	2175
22.5°	2142	2201	2331	2449	2525	2450	2332	2200	2119
25°	2085	2156	2283	2422	2486	2423	2286	2153	2056
27.5°	2023	2104	2232	2347	2394	2351	2233	2099	1991
30°	1956	2046	2180	2235	2280	2242	2180	2039	1920
32.5°	1883	1980	2100	2108	2166	2120	2100	1971	1846
35°	1805	1904	1989	2004	2109	2013	1993	1895	1765
37.5°	1722	1816	1866	1944	2068	1947	1872	1809	1679
40°	1634	1720	1750	1853	1939	1858	1756	1713	1586
42.5°	1539	1616	1642	1675	1708	1680	1648	1607	1475
45°	1428	1497	1515	1428	1440	1432	1518	1479	1343
47.5°	1294	1358	1334	1165	1173	1169	1333	1328	1184
50°	1101	1165	1095	924	920	928	1091	1129	973
52.5°	873	898	826	710	697	711	817	867	768
55°	640	623	564	531	520	534	553	606	523
57.5°	374	374	350	387	393	388	340	363	260
60°	170	192	200	264	260	262	194	183	116
62.5°	88	100	112	146	133	143	109	96	70
65°	57	63	71	77	66	76	69	61	47
67.5°	40	45	50	51	43	50	48	43	34
70°	28	32	36	36	31	36	36	31	24
72.5°	20	24	27	27	22	26	26	23	17
75°	15	17	20	20	16	19	19	17	13
77.5°	10	13	14	14	12	14	14	12	9
80°	7	9	10	10	8	10	10	8	6
82.5°	5	5	6	6	5	6	6	5	4
85°	2	3	3	3	3	3	3	3	1
87.5°	1	1	1	1	1	1	1	0	0
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)