

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: 104P205

Luminaire Tested: **2EP3GX-332S38M/I-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P205
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S38M/I-2BC-PAF
Description: 2 X 4 Recessed Troffer with a 3" deep 24 cell
specular low iridescent parabolic louver.
Light Source: Three-F32T8/35K - 2850 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

Summary

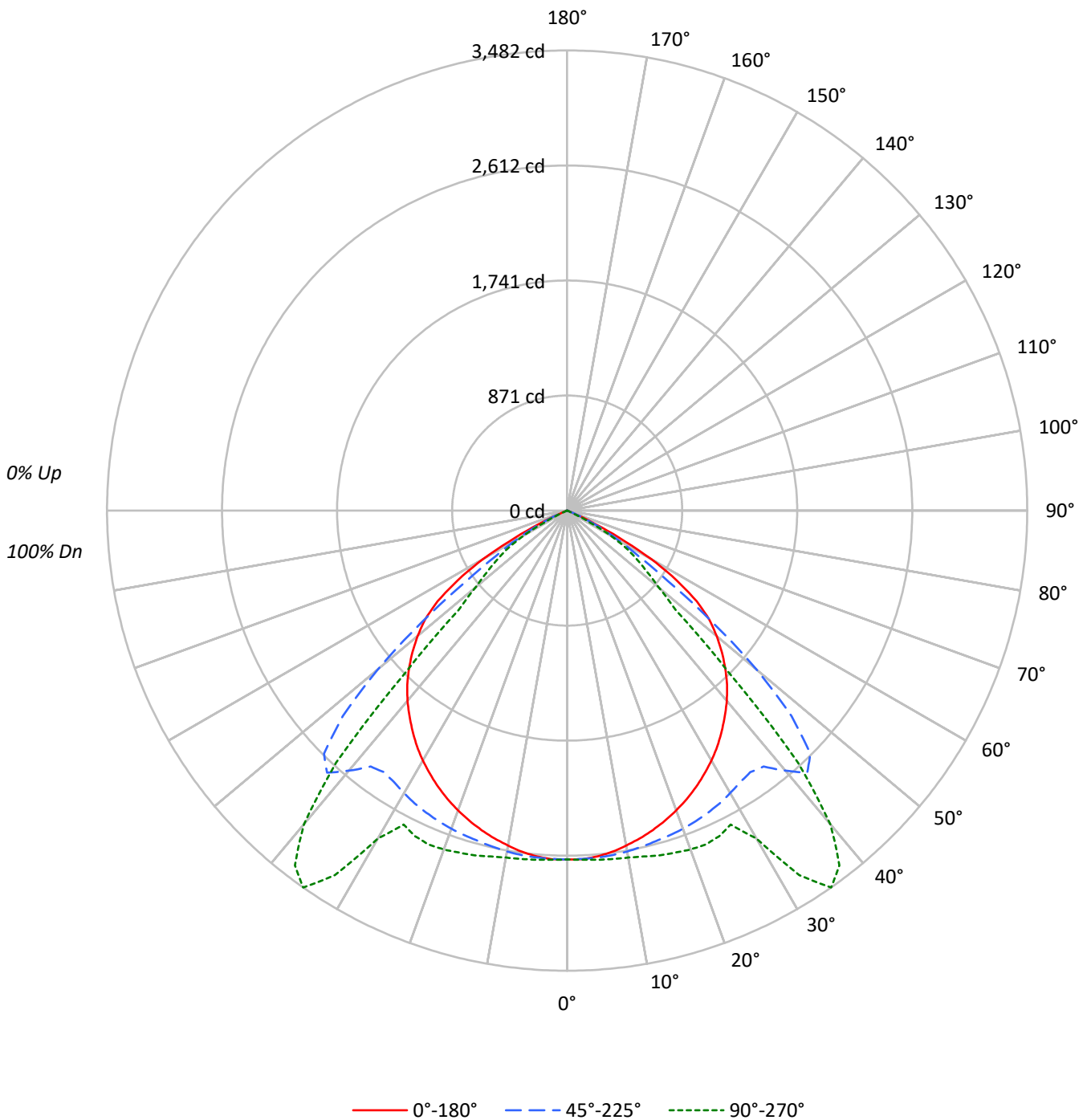
Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 6428.6 lumens
Efficiency: 75.2%
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.71 / 1.55
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

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									
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	90	90	90	90	87	87	87	87	84	84	84	80	80	80	77	77	77	75						75													
1	84	81	79	77	82	80	77	75	76	75	73	74	72	71	71	70	69	67						67													
2	78	73	69	66	76	72	68	65	69	66	63	67	64	62	65	62	61	59						59													
3	72	66	60	56	70	64	60	56	62	58	55	60	57	54	58	56	53	52						52													
4	67	59	53	49	65	58	53	49	56	52	48	55	51	47	53	50	47	45						45													
5	62	53	47	43	60	52	47	43	51	46	42	49	45	42	48	44	41	40						40													
6	57	48	42	38	56	47	42	38	46	41	37	45	40	37	44	40	37	35						35													
7	53	44	38	34	52	43	38	34	42	37	33	41	36	33	40	36	33	31						31													
8	49	40	34	30	48	40	34	30	39	33	30	38	33	30	37	33	30	28						28													
9	46	37	31	27	45	36	31	27	35	30	27	35	30	27	34	30	27	25						25													
10	43	34	28	25	42	33	28	24	33	28	24	32	28	24	31	27	24	23						23													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4369	4369	4369
5°	4364	4378	4406
10°	4326	4401	4480
15°	4289	4438	4628
20°	4252	4512	4807
25°	4215	4606	4965
30°	4174	4717	5473
35°	4120	4881	7035
40°	4060	5550	6695
45°	3963	6090	4026
50°	3806	4817	2330
55°	3457	2675	1858
60°	2426	1490	1274
65°	760	595	196
70°	77	73	39
75°	51	38	26
80°	38	29	19
85°	19	19	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	251.1	3.9	2.9	0°	2640	2640	2640	2640	2640	
10°-20°	734.8	11.4	8.6	5°	2627	2625	2635	2645	2652	249
20°-30°	1162.4	18.1	13.6	15°	2503	2527	2590	2666	2701	706
30°-40°	1619.6	25.2	18.9	25°	2308	2367	2522	2663	2719	1063
40°-50°	1575.7	24.5	18.4	35°	2039	2155	2416	3183	3482	1275
50°-60°	890.8	13.9	10.4	45°	1693	1890	2602	2152	1720	1303
60°-70°	185.9	2.9	2.2	55°	1198	1495	927	651	644	1035
70°-80°	7.4	0.1	0.1	65°	194	165	152	89	50	258
80°-90°	1.0	0.0	0.0	75°	8	8	6	5	4	9
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	1
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°	2148.3	33.4	25.1	165°	0	0	0	0	0	0
0°-40°	3767.8	58.6	44.1	175°	0	0	0	0	0	0
0°-60°	6234.3	97.0	72.9	180°	0	0	0	0	0	0
0°-90°	6428.6	100.0	75.2							
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°	6428.6	100.0	75.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2640	2640	2640	2640	2640
2.5°	2641	2635	2638	2641	2644
5°	2627	2625	2635	2645	2652
7.5°	2605	2608	2630	2649	2659
10°	2574	2587	2619	2652	2666
12.5°	2541	2559	2605	2656	2681
15°	2503	2527	2590	2666	2701
17.5°	2461	2493	2577	2672	2714
20°	2414	2454	2562	2676	2729
22.5°	2363	2412	2544	2676	2736
25°	2308	2367	2522	2663	2719
27.5°	2247	2318	2498	2633	2679
30°	2184	2267	2468	2624	2864
32.5°	2115	2214	2437	2847	3271
35°	2039	2155	2416	3183	3482
37.5°	1960	2090	2442	3272	3384
40°	1879	2025	2569	3105	3099
42.5°	1791	1958	2690	2747	2587
45°	1693	1890	2602	2152	1720
47.5°	1588	1825	2303	1413	1113
50°	1478	1757	1871	971	905
52.5°	1356	1664	1382	788	761
55°	1198	1495	927	651	644
57.5°	984	1216	640	527	532
60°	733	799	450	390	385
62.5°	441	396	290	230	188
65°	194	165	152	89	50
67.5°	49	60	53	22	12
70°	16	19	15	10	8
72.5°	11	11	9	7	6
75°	8	8	6	5	4
77.5°	5	5	5	4	3
80°	4	4	3	2	2
82.5°	2	2	2	1	1
85°	1	1	1	0	0
87.5°	0	0	0	0	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)