

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: P30843-R2

Luminaire Tested: **2GR8-332A125-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30843-R2
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-332A125-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL TROFFER WITH ACRYLIC PRISMATIC LENS, NOM.
0.125" THICK
Light Source: (3) DOUBLE BIPIN T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
GE332MAX-N/ULTRA

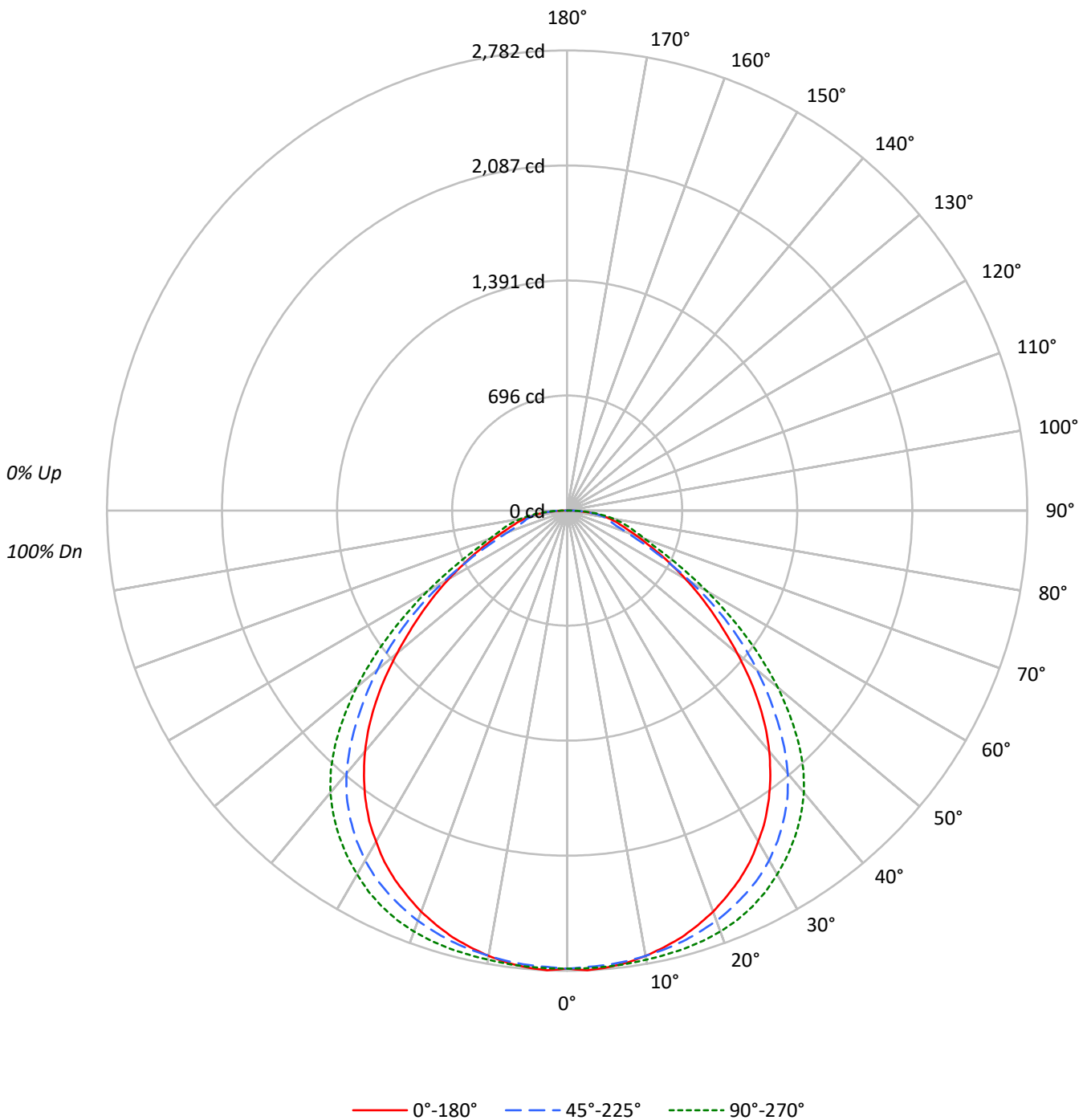
Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 7190.2 lumens
Efficiency: 77.3%
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.35 / 1.37
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 83.1
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77	77	77	77													
1	85	81	78	75	83	79	77	74	76	74	72	73	71	69	70	69	67	66	66	66	66	66	66	66													
2	77	71	67	62	75	70	65	62	67	63	60	65	62	59	62	60	58	56	56	56	56	56	56	56													
3	71	63	57	53	69	62	57	52	60	55	51	58	54	50	56	52	49	48	48	48	48	48	48	48													
4	65	56	50	45	64	55	49	45	54	48	44	52	47	44	50	46	43	41	41	41	41	41	41	41													
5	60	51	44	39	59	50	44	39	48	43	39	47	42	38	45	41	38	36	36	36	36	36	36	36													
6	56	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32	32	32	32	32	32	32													
7	52	42	35	31	50	41	35	30	40	34	30	39	34	30	38	33	30	28	28	28	28	28	28	28													
8	48	38	32	27	47	38	31	27	37	31	27	36	31	27	35	30	27	25	25	25	25	25	25	25													
9	45	35	29	25	44	35	29	25	34	28	24	33	28	24	32	28	24	23	23	23	23	23	23	23													
10	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	21	21	21	21	21	21	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4443	4443	4443
5°	4466	4441	4457
10°	4455	4455	4492
15°	4437	4480	4555
20°	4405	4506	4624
25°	4361	4525	4681
30°	4282	4525	4706
35°	4166	4472	4709
40°	3982	4346	4665
45°	3712	4080	4486
50°	3347	3739	4149
55°	2988	3323	3673
60°	2651	2769	3132
65°	2324	2183	2616
70°	2097	1773	2341
75°	2077	1730	2418
80°	2264	2107	2633
85°	2449	2522	2872



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	262.9	3.7	2.8	0°	2769	2769	2769	2769	2769	
10°-20°	762.7	10.6	8.2	5°	2773	2760	2757	2760	2767	263
20°-30°	1176.3	16.4	12.6	15°	2671	2671	2697	2725	2742	753
30°-40°	1417.7	19.7	15.2	25°	2463	2487	2556	2619	2644	1133
40°-50°	1382.5	19.2	14.9	35°	2127	2175	2283	2365	2404	1326
50°-60°	1065.7	14.8	11.5	45°	1636	1677	1798	1912	1977	1257
60°-70°	625.0	8.7	6.7	55°	1068	1110	1188	1290	1313	959
70°-80°	344.1	4.8	3.7	65°	612	583	575	660	689	614
80°-90°	150.4	2.1	1.6	75°	335	302	279	338	390	358
90°-100°	2.9	0.0	0.0	85°	133	133	137	158	156	131
100°-110°	0.0	0.0	0.0	90°	10	17	22	28	27	12
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°	2201.8	30.6	23.7	165°	0	0	0	0	0	0
0°-40°	3619.5	50.3	38.9	175°	0	0	0	0	0	0
0°-60°	6067.8	84.4	65.2	180°	0	0	0	0	0	0
0°-90°	7187.3	100.0	77.3							
90°-120°	2.9	0.0	0.0							
90°-150°	2.9	0.0	0.0							
90°-180°	3.0	0.0	0.0							
0°-180°	7190.2	100.0	77.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2769	2769	2769	2769	2769
2.5°	2782	2768	2762	2762	2769
5°	2773	2760	2757	2760	2767
7.5°	2757	2746	2748	2755	2764
10°	2734	2726	2734	2746	2757
12.5°	2704	2700	2717	2737	2750
15°	2671	2671	2697	2725	2742
17.5°	2628	2634	2670	2709	2728
20°	2580	2591	2639	2686	2708
22.5°	2523	2542	2600	2657	2681
25°	2463	2487	2556	2619	2644
27.5°	2394	2423	2505	2571	2598
30°	2311	2352	2442	2512	2540
32.5°	2226	2270	2368	2443	2476
35°	2127	2175	2283	2365	2404
37.5°	2018	2069	2189	2276	2321
40°	1901	1953	2075	2173	2227
42.5°	1774	1826	1944	2052	2113
45°	1636	1677	1798	1912	1977
47.5°	1490	1532	1648	1763	1823
50°	1341	1386	1498	1608	1662
52.5°	1199	1246	1346	1452	1489
55°	1068	1110	1188	1290	1313
57.5°	945	971	1026	1121	1141
60°	826	833	863	954	976
62.5°	712	699	710	796	824
65°	612	583	575	660	689
67.5°	522	483	463	548	578
70°	447	408	378	462	499
72.5°	383	349	315	392	438
75°	335	302	279	338	390
77.5°	292	260	255	293	339
80°	245	220	228	254	285
82.5°	193	179	189	212	225
85°	133	133	137	158	156
87.5°	68	76	78	91	85
90°	10	17	22	28	27
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)