

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: P30844-R2

Luminaire Tested: **2GR8-332A125MIN-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30844-R2
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-332A125MIN-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL TROFFER WITH ACRYLIC PRISMATIC LENS, MIN.
0.125" THICK
Light Source: (3) DOUBLE BIPIN T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
GE332MAX-N/ULTRA

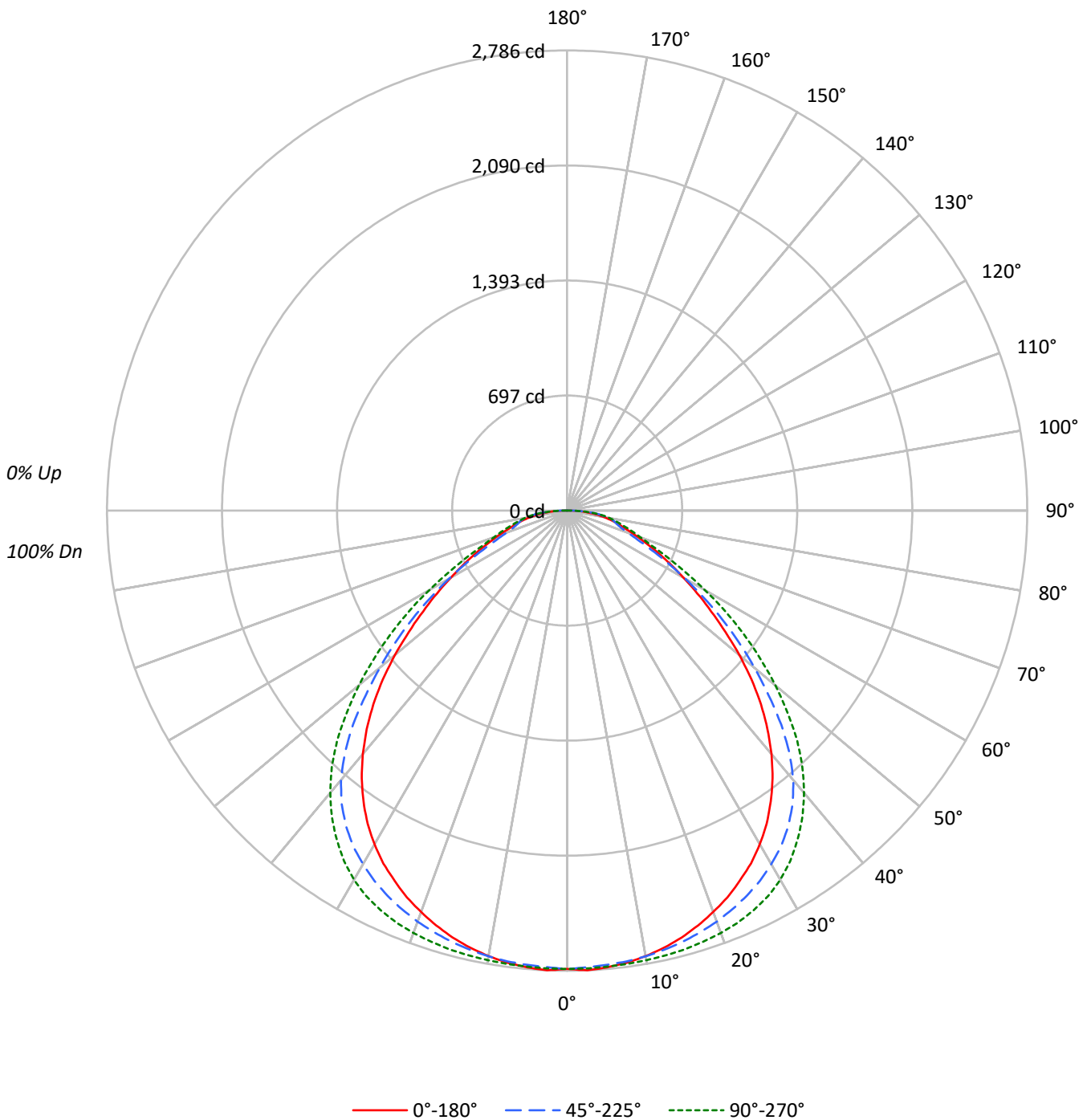
Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 7213.4 lumens
Efficiency: 77.6%
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.36 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 82.9
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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	78				78
1	85	81	78	75	83	80	77	74	76	74	72	73	71	70	71	69	68	66				66
2	78	72	67	63	76	70	66	62	68	64	60	65	62	59	63	60	58	56				56
3	71	64	58	53	69	62	57	52	60	55	51	58	54	51	56	53	50	48				48
4	66	57	50	45	64	56	50	45	54	49	44	52	48	44	50	46	43	42				42
5	61	51	44	39	59	50	44	39	49	43	39	47	42	38	46	41	38	36				36
6	56	46	39	35	55	45	39	34	44	38	34	43	38	34	41	37	34	32				32
7	52	42	35	31	51	41	35	31	40	34	30	39	34	30	38	33	30	28				28
8	48	38	32	28	47	38	32	27	37	31	27	36	31	27	35	30	27	25				25
9	45	35	29	25	44	35	29	25	34	28	25	33	28	24	32	28	24	23				23
10	43	33	27	23	42	32	26	22	31	26	22	31	26	22	30	25	22	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4453	4453	4453
5°	4471	4447	4465
10°	4463	4464	4503
15°	4445	4490	4568
20°	4416	4522	4646
25°	4378	4555	4727
30°	4323	4580	4782
35°	4211	4570	4764
40°	4030	4462	4673
45°	3765	4159	4468
50°	3397	3694	4106
55°	2979	3198	3651
60°	2615	2648	3094
65°	2312	2134	2536
70°	2074	1820	2205
75°	1996	1922	2170
80°	2088	2384	2421
85°	2228	2762	2835



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	263.3	3.7	2.8	0°	2775	2775	2775	2775	2775	
10°-20°	764.7	10.6	8.2	5°	2776	2764	2761	2764	2772	264
20°-30°	1185.2	16.4	12.7	15°	2676	2676	2703	2733	2750	755
30°-40°	1441.2	20.0	15.5	25°	2473	2499	2573	2640	2670	1139
40°-50°	1399.0	19.4	15.0	35°	2150	2214	2333	2406	2432	1341
50°-60°	1047.9	14.5	11.3	45°	1659	1718	1833	1938	1969	1274
60°-70°	611.8	8.5	6.6	55°	1065	1102	1143	1254	1305	959
70°-80°	344.7	4.8	3.7	65°	609	576	562	641	668	609
80°-90°	153.1	2.1	1.6	75°	322	300	310	334	350	345
90°-100°	2.4	0.0	0.0	85°	121	137	150	163	154	120
100°-110°	0.0	0.0	0.0	90°	6	13	19	24	23	10
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°	2213.2	30.7	23.8	165°	0	0	0	0	0	0
0°-40°	3654.4	50.7	39.3	175°	0	0	0	0	0	0
0°-60°	6101.3	84.6	65.6	180°	0	0	0	0	0	0
0°-90°	7211.0	100.0	77.5							
90°-120°	2.4	0.0	0.0							
90°-150°	2.4	0.0	0.0							
90°-180°	2.0	0.0	0.0							
0°-180°	7213.4	100.0	77.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2775	2775	2775	2775	2775
2.5°	2786	2773	2767	2768	2774
5°	2776	2764	2761	2764	2772
7.5°	2761	2751	2753	2760	2769
10°	2739	2731	2740	2752	2764
12.5°	2711	2706	2723	2744	2758
15°	2676	2676	2703	2733	2750
17.5°	2634	2640	2677	2716	2737
20°	2586	2600	2648	2697	2721
22.5°	2535	2553	2613	2672	2700
25°	2473	2499	2573	2640	2670
27.5°	2409	2442	2527	2601	2633
30°	2333	2376	2472	2549	2581
32.5°	2248	2302	2410	2486	2515
35°	2150	2214	2333	2406	2432
37.5°	2043	2113	2242	2315	2340
40°	1924	1996	2130	2208	2231
42.5°	1796	1869	1992	2085	2109
45°	1659	1718	1833	1938	1969
47.5°	1513	1556	1653	1770	1810
50°	1361	1400	1480	1596	1645
52.5°	1209	1247	1310	1424	1476
55°	1065	1102	1143	1254	1305
57.5°	935	960	981	1085	1136
60°	815	820	825	919	964
62.5°	707	693	684	772	806
65°	609	576	562	641	668
67.5°	518	476	461	535	555
70°	442	401	388	453	470
72.5°	376	345	338	386	408
75°	322	300	310	334	350
77.5°	275	263	289	296	303
80°	226	229	258	262	262
82.5°	174	187	210	221	214
85°	121	137	150	163	154
87.5°	64	74	80	91	84
90°	6	13	19	24	23
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)