

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: P30833

Luminaire Tested: **2GR8-432A125-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30833
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-432A125-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL TROFFER W/ ACRYLIC PRISMATIC LENS, NOM.
0.125" THICK
Light Source: (4) DOUBLE BIPIN T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
GE432MAX-N/ULTRA

Summary

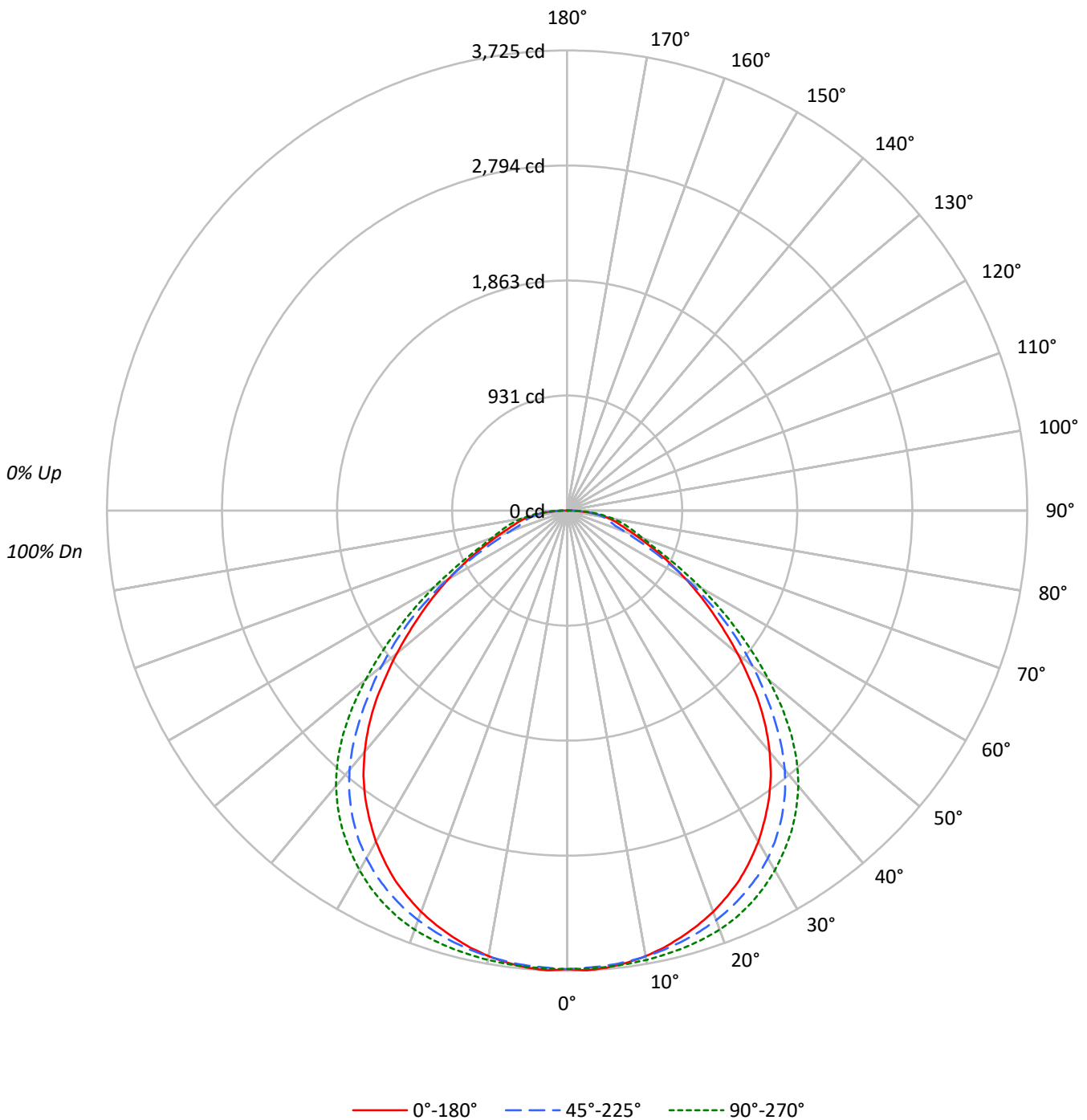
Lumens per Lamp: 3100 (4 lamps)
Luminaire Lumens: 9503.2 lumens
Efficiency: 76.6%
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.33 / 1.36
Luminous Opening: Rectangular (W 2' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 109.8
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	91	91	91	91	89	89	89	89	85	85	85	82	82	82	78	78	78	77						77													
1	84	80	77	75	82	79	76	73	75	73	71	72	71	69	70	68	67	65						65													
2	77	71	66	62	75	69	65	61	67	63	60	64	61	58	62	59	57	55						55													
3	70	63	57	52	69	62	56	52	59	55	51	57	53	50	55	52	49	48						48													
4	65	56	50	45	63	55	49	45	53	48	44	51	47	43	50	46	43	41						41													
5	60	50	44	39	58	50	43	39	48	43	38	46	42	38	45	41	38	36						36													
6	55	46	39	34	54	45	39	34	43	38	34	42	37	34	41	37	33	32						32													
7	51	41	35	30	50	41	35	30	40	34	30	39	34	30	38	33	30	28						28													
8	48	38	32	27	47	37	31	27	36	31	27	35	30	27	35	30	27	25						25													
9	45	35	29	25	44	34	29	25	34	28	24	33	28	24	32	27	24	23						23													
10	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	21						21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5212	5212	5212
5°	5234	5212	5226
10°	5221	5225	5265
15°	5195	5246	5324
20°	5165	5271	5394
25°	5112	5284	5441
30°	5018	5269	5450
35°	4880	5192	5426
40°	4674	5024	5337
45°	4362	4700	5095
50°	3934	4285	4655
55°	3508	3794	4095
60°	3111	3162	3507
65°	2717	2495	2930
70°	2447	2016	2668
75°	2403	1975	2772
80°	2652	2417	3032
85°	2835	2948	3351



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	352.2	3.7	2.8	0°	3712	3712	3712	3712	3712	
10°-20°	1020.3	10.7	8.2	5°	3714	3699	3698	3697	3708	353
20°-30°	1568.5	16.5	12.6	15°	3574	3577	3609	3640	3663	1009
30°-40°	1880.3	19.8	15.2	25°	3300	3330	3411	3479	3512	1518
40°-50°	1818.4	19.1	14.7	35°	2847	2906	3029	3115	3166	1776
50°-60°	1391.0	14.6	11.2	45°	2197	2226	2367	2493	2566	1685
60°-70°	816.9	8.6	6.6	55°	1433	1462	1550	1662	1673	1287
70°-80°	452.2	4.8	3.6	65°	818	767	751	856	882	821
80°-90°	199.2	2.1	1.6	75°	443	396	364	443	511	476
90°-100°	4.2	0.0	0.0	85°	176	179	183	207	208	174
100°-110°	0.0	0.0	0.0	90°	12	26	30	40	40	16
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°	2941.0	30.9	23.7	165°	0	0	0	0	0	0
0°-40°	4821.3	50.7	38.9	175°	0	0	0	0	0	0
0°-60°	8030.7	84.5	64.8	180°	0	0	0	0	0	0
0°-90°	9499.0	100.0	76.6							
90°-120°	4.2	0.0	0.0							
90°-150°	4.2	0.0	0.0							
90°-180°	4.0	0.0	0.0							
0°-180°	9503.2	100.0	76.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3712	3712	3712	3712	3712
2.5°	3725	3709	3704	3700	3710
5°	3714	3699	3698	3697	3708
7.5°	3693	3681	3684	3689	3702
10°	3662	3654	3665	3677	3693
12.5°	3623	3619	3640	3661	3680
15°	3574	3577	3609	3640	3663
17.5°	3519	3528	3572	3614	3640
20°	3457	3471	3528	3579	3610
22.5°	3381	3405	3475	3536	3568
25°	3300	3330	3411	3479	3512
27.5°	3201	3243	3338	3407	3444
30°	3095	3144	3250	3323	3362
32.5°	2974	3032	3147	3228	3268
35°	2847	2906	3029	3115	3166
37.5°	2709	2761	2896	2992	3047
40°	2550	2601	2741	2851	2912
42.5°	2381	2421	2563	2682	2752
45°	2197	2226	2367	2493	2566
47.5°	1990	2025	2163	2290	2356
50°	1801	1832	1962	2088	2131
52.5°	1609	1645	1759	1878	1899
55°	1433	1462	1550	1662	1673
57.5°	1267	1281	1334	1447	1456
60°	1108	1097	1126	1239	1249
62.5°	956	926	927	1036	1053
65°	818	767	751	856	882
67.5°	696	636	599	711	744
70°	596	535	491	602	650
72.5°	510	460	412	513	575
75°	443	396	364	443	511
77.5°	390	342	335	387	448
80°	328	290	299	333	375
82.5°	255	238	249	278	294
85°	176	179	183	207	208
87.5°	91	104	103	118	116
90°	12	26	30	40	40
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)