

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: P30879-R2

Luminaire Tested: **2GC8-332A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30879-R2
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-332A19/156-UNV-EB81
Description: METALUX 2' X 4' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE #19,
0.156" THICK
Light Source: (3) T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP3x32T8/UNV ISN-SC

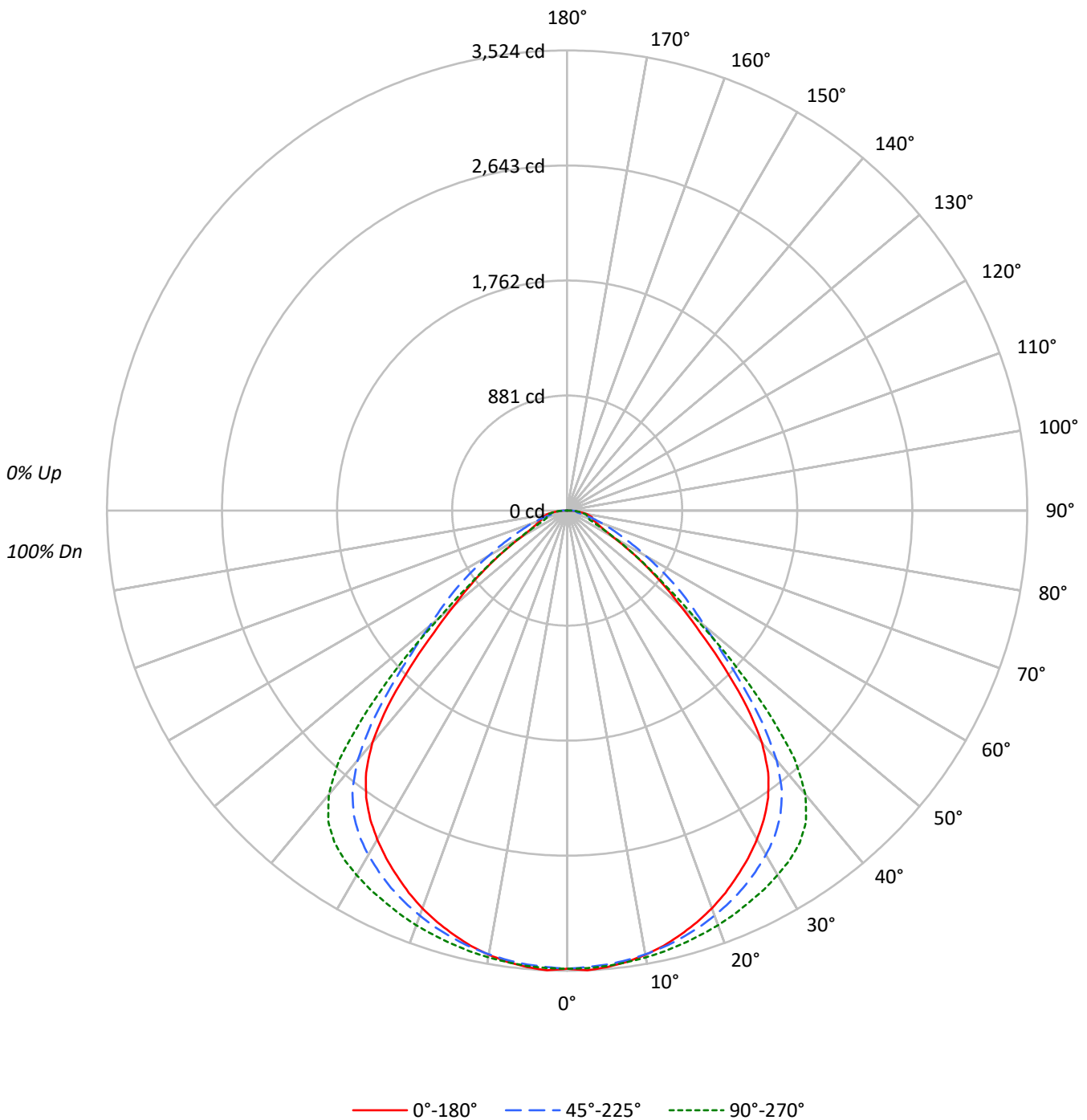
Summary

Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 7671.0 lumens
Efficiency: 82.5%
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.31
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 83
Input Voltage (V): NR
Input Current (A_{in}): 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	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	82
1	91	88	85	82	89	86	83	81	83	80	78	79	78	76	77	75	74	72
2	84	79	74	70	82	77	73	69	74	70	67	72	68	66	69	67	64	63
3	78	70	65	60	76	69	64	59	67	62	58	65	61	57	63	59	56	55
4	72	63	57	52	70	62	56	52	60	55	51	59	54	50	57	53	50	48
5	67	57	51	46	65	57	50	46	55	49	45	53	48	45	52	48	44	43
6	62	52	46	41	61	51	45	41	50	44	40	49	44	40	47	43	40	38
7	58	48	41	36	57	47	41	36	46	40	36	45	40	36	44	39	36	34
8	54	44	37	33	53	43	37	33	42	37	33	41	36	32	40	36	32	31
9	51	40	34	30	50	40	34	30	39	33	30	38	33	29	37	33	29	28
10	48	37	31	27	47	37	31	27	36	31	27	35	30	27	35	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5630	5630	5630
5°	5652	5621	5639
10°	5628	5623	5660
15°	5585	5628	5703
20°	5534	5637	5770
25°	5464	5646	5853
30°	5388	5642	5972
35°	5255	5579	6082
40°	4862	5228	5947
45°	3867	4327	4908
50°	2811	3427	3198
55°	2053	2876	2076
60°	1309	2237	1354
65°	1029	1701	892
70°	995	1332	798
75°	1215	905	986
80°	1386	730	1220
85°	1418	1344	1491



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	332.4	4.3	3.6	0°	3509	3509	3509	3509	3509	
10°-20°	957.9	12.5	10.3	5°	3509	3495	3490	3492	3501	333
20°-30°	1471.8	19.2	15.8	15°	3362	3364	3388	3416	3433	949
30°-40°	1783.7	23.3	19.2	25°	3086	3110	3189	3270	3306	1422
40°-50°	1509.8	19.7	16.2	35°	2683	2720	2848	3029	3105	1663
50°-60°	838.5	10.9	9.0	45°	1704	1889	1907	2169	2163	1313
60°-70°	441.1	5.8	4.7	55°	734	907	1028	1005	742	661
70°-80°	239.6	3.1	2.6	65°	271	493	448	539	235	282
80°-90°	94.2	1.2	1.0	75°	196	273	146	298	159	200
90°-100°	2.1	0.0	0.0	85°	77	113	73	99	81	78
100°-110°	0.0	0.0	0.0	90°	5	14	17	19	16	6
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°	2762.0	36.0	29.7	165°	0	0	0	0	0	0
0°-40°	4545.7	59.3	48.9	175°	0	0	0	0	0	0
0°-60°	6894.0	89.9	74.1	180°	0	0	0	0	0	0
0°-90°	7669.0	100.0	82.5							
90°-120°	2.1	0.0	0.0							
90°-150°	2.1	0.0	0.0							
90°-180°	2.0	0.0	0.0							
0°-180°	7671.0	100.0	82.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3509	3509	3509	3509	3509
2.5°	3524	3508	3499	3499	3507
5°	3509	3495	3490	3492	3501
7.5°	3487	3473	3473	3479	3489
10°	3454	3444	3451	3462	3474
12.5°	3414	3409	3423	3441	3456
15°	3362	3364	3388	3416	3433
17.5°	3305	3311	3348	3384	3407
20°	3241	3251	3301	3351	3379
22.5°	3168	3184	3248	3315	3346
25°	3086	3110	3189	3270	3306
27.5°	3001	3030	3120	3222	3269
30°	2908	2940	3045	3168	3223
32.5°	2805	2840	2959	3106	3172
35°	2683	2720	2848	3029	3105
37.5°	2530	2581	2701	2922	3005
40°	2321	2395	2496	2759	2839
42.5°	2038	2160	2224	2511	2580
45°	1704	1889	1907	2169	2163
47.5°	1384	1606	1610	1798	1719
50°	1126	1337	1373	1455	1281
52.5°	922	1106	1196	1201	963
55°	734	907	1028	1005	742
57.5°	553	748	858	854	567
60°	408	628	697	731	422
62.5°	321	549	562	627	312
65°	271	493	448	539	235
67.5°	238	442	360	468	191
70°	212	382	284	410	170
72.5°	208	320	211	355	163
75°	196	273	146	298	159
77.5°	173	234	102	240	150
80°	150	189	79	185	132
82.5°	117	148	71	139	111
85°	77	113	73	99	81
87.5°	36	65	56	58	48
90°	5	14	17	19	16
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)