

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: P30895

Luminaire Tested: **2GC8-432A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30895
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-432A19/156-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: (4) T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP4x32T8/UNV ISN-SC

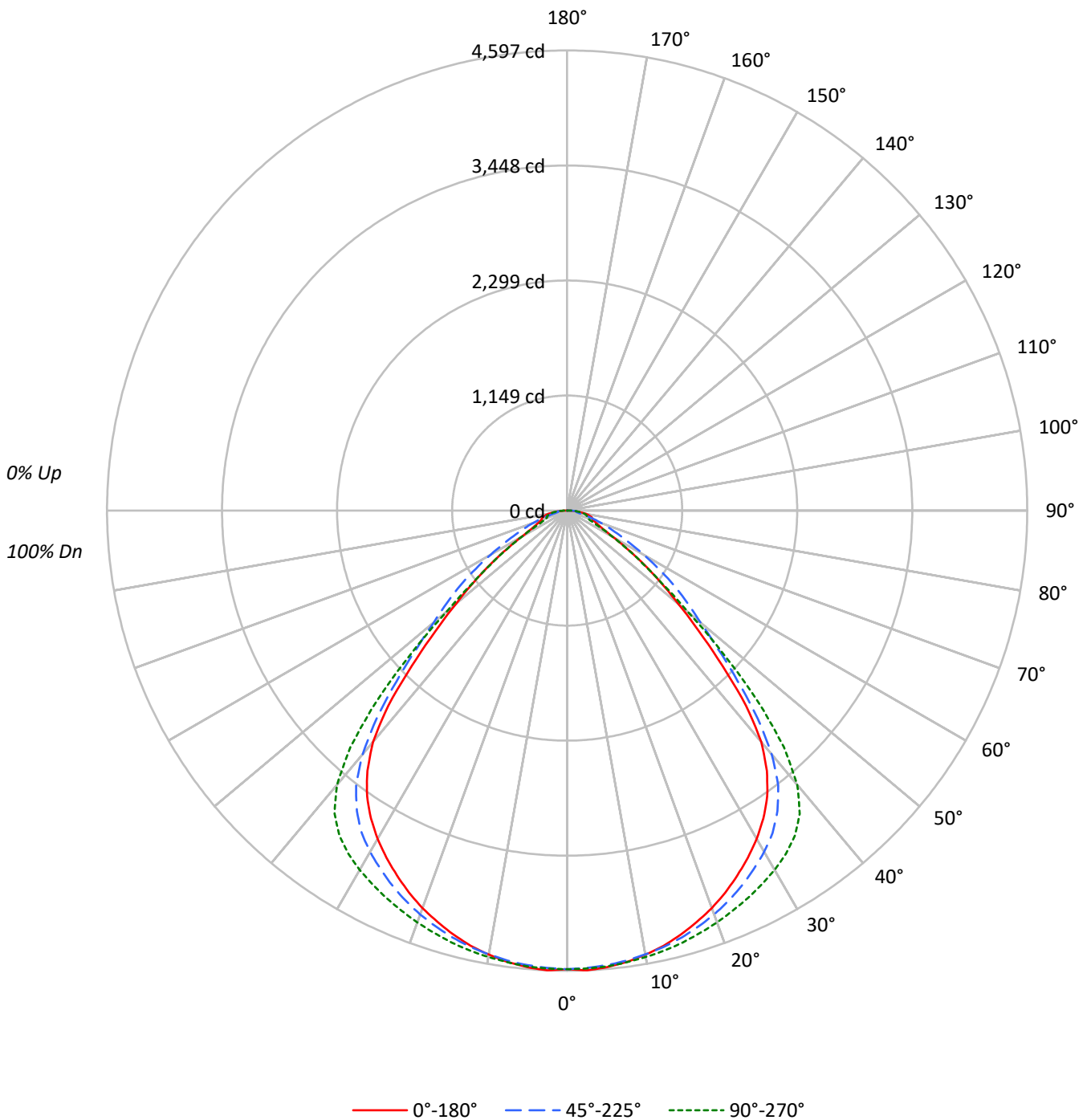
Summary

Lumens per Lamp: 3100 (4 lamps)
Luminaire Lumens: 9846.0 lumens
Efficiency: 79.4%
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.3
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 108.8
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	95	95	95	95	92	92	92	92	88	88	88	84	84	84	81	81	81	79
1	88	85	82	79	86	83	80	78	80	77	76	76	75	73	74	72	71	69
2	81	76	71	67	79	74	70	66	71	68	65	69	66	63	67	64	62	60
3	75	68	62	58	73	67	61	57	64	60	56	62	59	55	60	57	54	53
4	69	61	55	50	68	60	54	50	58	53	49	56	52	49	55	51	48	47
5	64	55	49	44	63	55	49	44	53	48	44	51	47	43	50	46	43	41
6	60	50	44	39	59	50	44	39	48	43	39	47	42	39	46	42	38	37
7	56	46	40	35	55	45	39	35	44	39	35	43	38	35	42	38	34	33
8	52	42	36	32	51	42	36	32	41	35	32	40	35	31	39	35	31	30
9	49	39	33	29	48	39	33	29	38	32	29	37	32	29	36	32	28	27
10	46	36	30	26	45	36	30	26	35	30	26	34	30	26	34	29	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7352	7352	7352
5°	7374	7342	7361
10°	7340	7335	7378
15°	7284	7336	7419
20°	7216	7330	7476
25°	7121	7317	7562
30°	7016	7294	7680
35°	6826	7177	7767
40°	6317	6665	7490
45°	4979	5469	6109
50°	3617	4338	3934
55°	2618	3639	2576
60°	1688	2830	1669
65°	1317	2153	1120
70°	1271	1680	1018
75°	1562	1147	1265
80°	1783	924	1552
85°	1767	1712	1951



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	433.7	4.4	3.5	0°	4582	4582	4582	4582	4582	
10°-20°	1247.3	12.7	10.1	5°	4578	4561	4558	4558	4570	435
20°-30°	1907.7	19.4	15.4	15°	4385	4387	4416	4443	4466	1237
30°-40°	2292.7	23.3	18.5	25°	4022	4048	4133	4222	4271	1853
40°-50°	1911.5	19.4	15.4	35°	3485	3523	3664	3871	3965	2160
50°-60°	1061.0	10.8	8.6	45°	2194	2419	2410	2714	2692	1697
60°-70°	561.5	5.7	4.5	55°	936	1161	1301	1264	921	848
70°-80°	307.2	3.1	2.5	65°	347	636	567	686	295	361
80°-90°	120.6	1.2	1.0	75°	252	357	185	381	204	256
90°-100°	2.6	0.0	0.0	85°	96	145	93	128	106	99
100°-110°	0.0	0.0	0.0	90°	6	21	21	23	18	8
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°	3588.8	36.4	28.9	165°	0	0	0	0	0	0
0°-40°	5881.5	59.7	47.4	175°	0	0	0	0	0	0
0°-60°	8854.0	89.9	71.4	180°	0	0	0	0	0	0
0°-90°	9843.3	100.0	79.4							
90°-120°	2.6	0.0	0.0							
90°-150°	2.6	0.0	0.0							
90°-180°	3.0	0.0	0.0							
0°-180°	9846.0	100.0	79.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4582	4582	4582	4582	4582
2.5°	4597	4578	4572	4567	4579
5°	4578	4561	4558	4558	4570
7.5°	4549	4534	4535	4537	4552
10°	4505	4495	4502	4512	4528
12.5°	4453	4447	4465	4481	4501
15°	4385	4387	4416	4443	4466
17.5°	4309	4316	4358	4396	4423
20°	4226	4238	4293	4345	4378
22.5°	4130	4148	4218	4287	4326
25°	4022	4048	4133	4222	4271
27.5°	3909	3937	4038	4154	4210
30°	3787	3818	3937	4077	4145
32.5°	3648	3681	3820	3985	4066
35°	3485	3523	3664	3871	3965
37.5°	3279	3329	3463	3715	3817
40°	3016	3083	3182	3485	3576
42.5°	2646	2772	2816	3149	3203
45°	2194	2419	2410	2714	2692
47.5°	1783	2053	2039	2243	2111
50°	1449	1710	1738	1821	1576
52.5°	1179	1414	1513	1507	1193
55°	936	1161	1301	1264	921
57.5°	715	956	1083	1075	710
60°	526	806	882	926	520
62.5°	412	707	708	794	390
65°	347	636	567	686	295
67.5°	303	568	456	597	243
70°	271	490	358	522	217
72.5°	266	416	267	452	209
75°	252	357	185	381	204
77.5°	221	302	129	310	192
80°	193	242	100	239	168
82.5°	150	190	92	179	141
85°	96	145	93	128	106
87.5°	45	84	70	73	59
90°	6	21	21	23	18
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)