

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: P30885

Luminaire Tested: **2GC8-232A-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

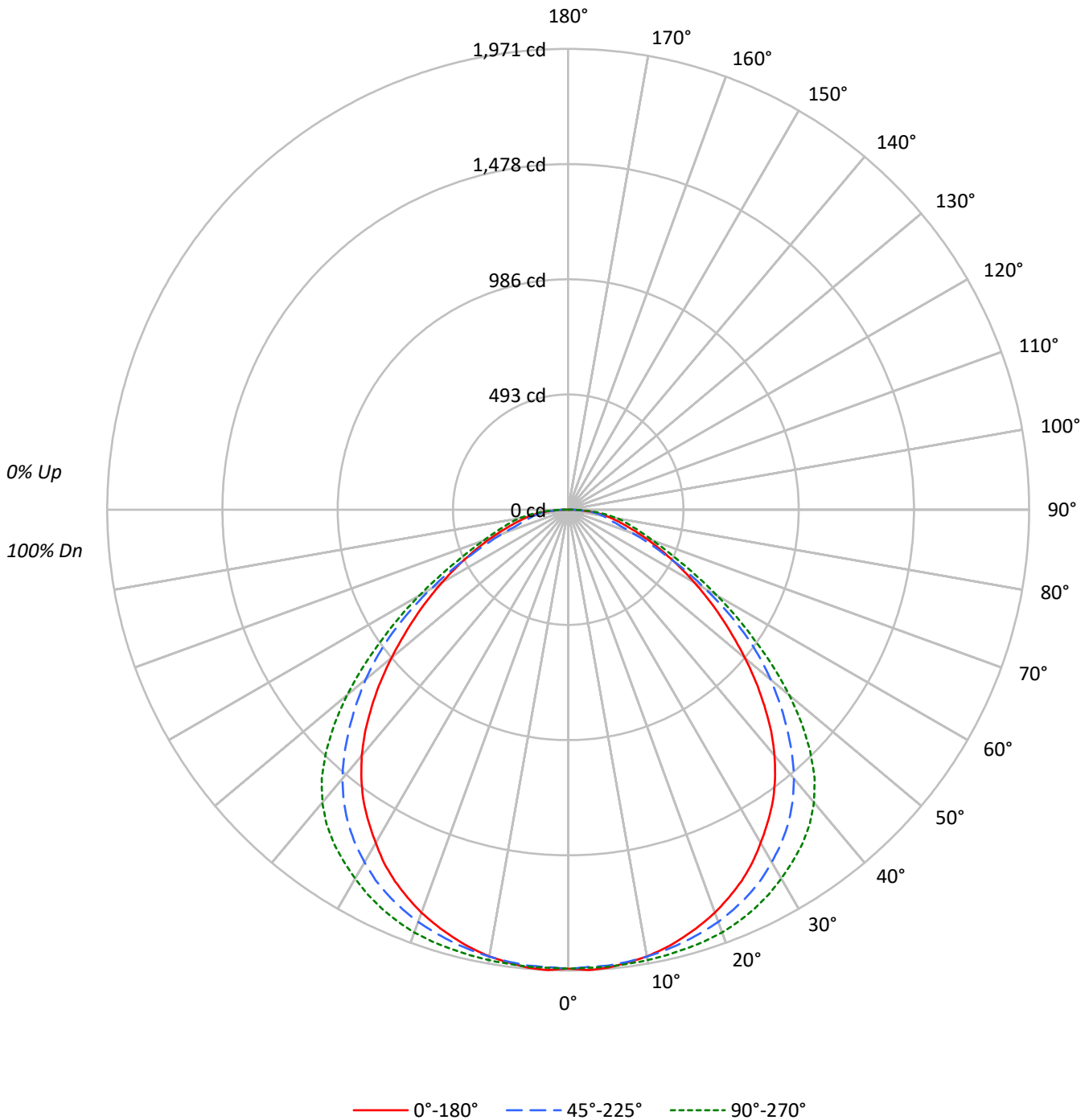
Test Method: LM-41-14  
Report Number: P30885  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC8-232A-UNV-EB81  
Description: METALUX 2' X 4' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER  
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS  
Light Source: (2) T8 LINEAR FLUORESCENT LAMPS  
Ballast/Driver: -  
QTP3x32T8/UNV ISN-SC

**Summary**

Lumens per Lamp: 3100 (2 lamps)  
Luminaire Lumens: 5254.2 lumens  
Efficiency: 84.7%  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.37 / 1.39  
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.1  
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				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	101	101	101	101	99	99	99	99	94	94	94		90	90	90		86	86	86	85
1	93	89	85	82	90	87	84	81	83	81	78		80	78	76		77	75	74	72
2	85	78	73	68	83	77	71	67	74	69	66		71	67	64		68	65	63	61
3	78	69	63	57	76	68	62	57	65	60	56		63	59	55		61	57	54	52
4	71	62	54	49	69	60	54	49	58	53	48		56	51	47		55	50	47	45
5	66	55	48	42	64	54	47	42	52	46	42		51	45	41		49	45	41	39
6	61	50	42	37	59	49	42	37	48	41	37		46	41	36		45	40	36	34
7	56	45	38	33	55	45	38	33	43	37	33		42	37	32		41	36	32	30
8	53	41	34	29	51	41	34	29	40	34	29		39	33	29		38	33	29	27
9	49	38	31	27	48	37	31	26	37	31	26		36	30	26		35	30	26	25
10	46	35	28	24	45	35	28	24	34	28	24		33	28	24		32	27	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3150	3150	3150
5°	3167	3152	3160
10°	3161	3162	3187
15°	3148	3179	3229
20°	3132	3203	3285
25°	3104	3222	3334
30°	3050	3226	3376
35°	2987	3212	3418
40°	2876	3146	3425
45°	2691	3002	3320
50°	2461	2823	3083
55°	2224	2565	2725
60°	1999	2173	2355
65°	1788	1746	2005
70°	1628	1384	1797
75°	1531	1228	1785
80°	1617	1395	1959
85°	1712	1694	2172



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	186.4	3.5	3.0	0°	1963	1963	1963	1963	1963	
10°-20°	541.2	10.3	8.7	5°	1966	1957	1957	1955	1962	187
20°-30°	837.1	15.9	13.5	15°	1895	1895	1914	1930	1944	535
30°-40°	1020.6	19.4	16.5	25°	1753	1768	1820	1859	1883	807
40°-50°	1017.3	19.4	16.4	35°	1525	1561	1640	1708	1745	951
50°-60°	800.7	15.2	12.9	45°	1186	1228	1323	1416	1463	913
60°-70°	481.8	9.2	7.8	55°	795	832	917	952	974	713
70°-80°	259.9	4.9	4.2	65°	471	444	460	502	528	472
80°-90°	107.0	2.0	1.7	75°	247	227	198	272	288	266
90°-100°	2.3	0.0	0.0	85°	93	89	92	117	118	93
100°-110°	0.0	0.0	0.0	90°	7	13	16	23	23	9
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°	1564.6	29.8	25.2	165°	0	0	0	0	0	0
0°-40°	2585.2	49.2	41.7	175°	0	0	0	0	0	0
0°-60°	4403.2	83.8	71.0	180°	0	0	0	0	0	0
0°-90°	5251.9	100.0	84.7							
90°-120°	2.3	0.0	0.0							
90°-150°	2.3	0.0	0.0							
90°-180°	2.0	0.0	0.0							
0°-180°	5254.2	100.0	84.7							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1963	1963	1963	1963	1963
2.5°	1971	1960	1958	1955	1961
5°	1966	1957	1957	1955	1962
7.5°	1954	1946	1950	1951	1959
10°	1940	1934	1941	1946	1956
12.5°	1920	1917	1929	1940	1951
15°	1895	1895	1914	1930	1944
17.5°	1866	1870	1896	1919	1936
20°	1834	1842	1876	1905	1924
22.5°	1795	1808	1850	1885	1906
25°	1753	1768	1820	1859	1883
27.5°	1704	1726	1785	1830	1856
30°	1646	1674	1741	1792	1822
32.5°	1587	1621	1694	1753	1785
35°	1525	1561	1640	1708	1745
37.5°	1453	1490	1576	1653	1696
40°	1373	1413	1502	1588	1635
42.5°	1284	1326	1417	1509	1559
45°	1186	1228	1323	1416	1463
47.5°	1088	1134	1227	1312	1354
50°	986	1035	1131	1202	1235
52.5°	887	937	1027	1081	1106
55°	795	832	917	952	974
57.5°	707	731	798	828	853
60°	623	628	677	706	734
62.5°	545	531	565	599	626
65°	471	444	460	502	528
67.5°	408	374	371	427	451
70°	347	311	295	365	383
72.5°	294	266	237	315	331
75°	247	227	198	272	288
77.5°	208	193	172	233	250
80°	175	159	151	196	212
82.5°	137	124	125	159	168
85°	93	89	92	117	118
87.5°	49	51	51	66	66
90°	7	13	16	23	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)