

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: P30918

Luminaire Tested: **2GC8IC-2U6T8A-UNV-EB81**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: P30918  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2GC8IC-2U6T8A-UNV-EB81  
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER,  
RATED FOR DIRECT CONTACT WITH INSULATION, WITH HIGH REFLECTANCE  
WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS  
Light Source: (2) T8 U SHAPE FLUORESCENT LAMPS 4100K  
GE F32T8-SPX41-U6-WM-ECO  
Ballast/Driver: (1) SYLVANIA ELECTRONIC BALLAST  
QUICKTRONICS QTP2x32T8/UNV ISN-SC

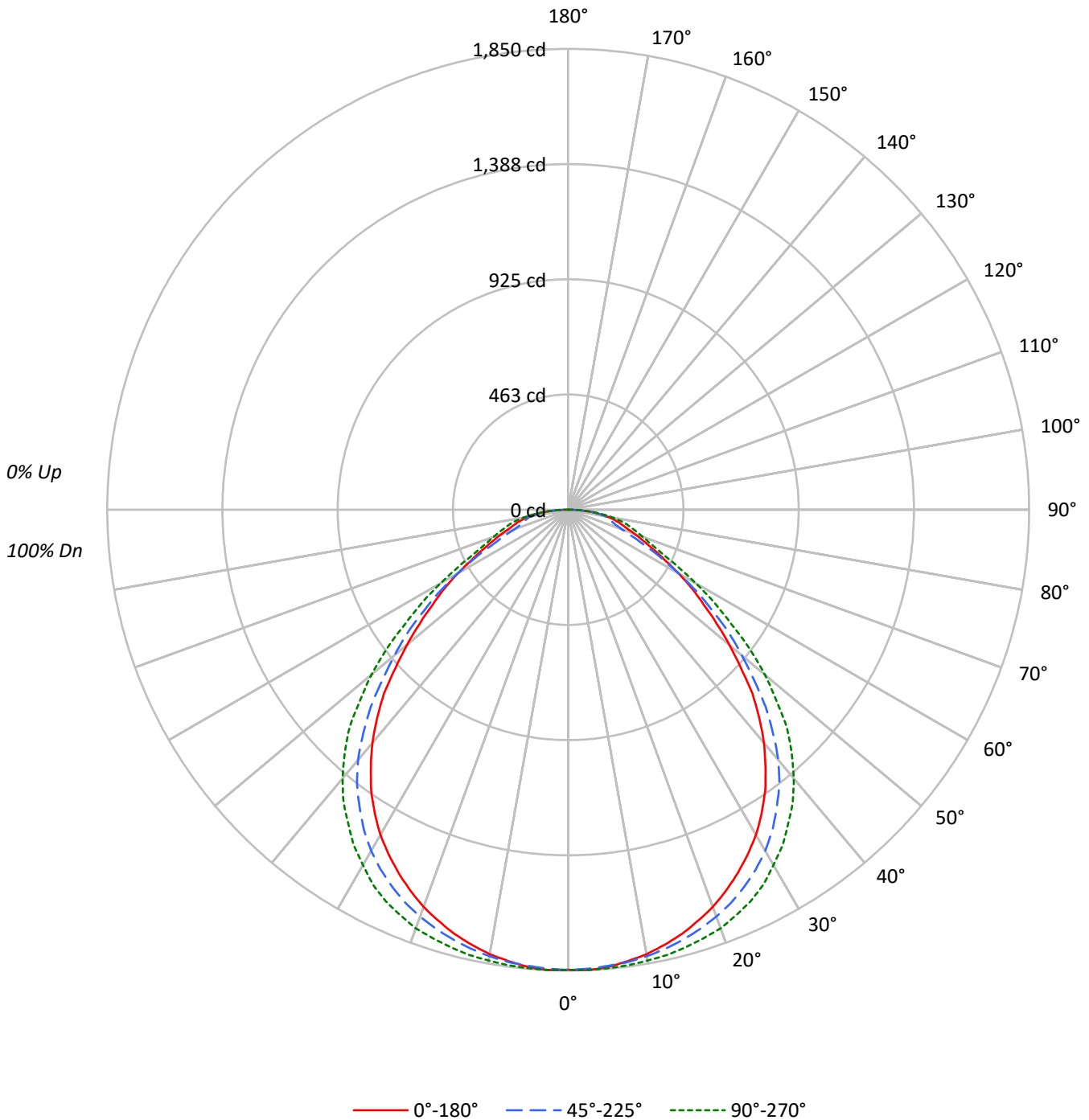
**Summary**

Lumens per Lamp: 2850 (2 lamps)  
Luminaire Lumens: 4566.8 lumens  
Efficiency: 80.1%  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 52.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	93	93	93	93	89	89	89		85	85	85		82	82	82	80
1	88	84	81	78	86	82	79	77	79	77	74		76	74	72		73	71	70	68
2	80	74	69	65	78	73	68	64	70	66	63		67	64	61		65	62	60	58
3	74	66	60	55	72	65	59	54	62	58	54		60	56	53		58	55	52	50
4	68	59	52	47	66	58	52	47	56	51	46		54	49	46		52	48	45	43
5	63	53	46	41	61	52	46	41	50	45	40		49	44	40		47	43	40	38
6	58	48	41	36	57	47	41	36	46	40	36		44	39	35		43	39	35	34
7	54	44	37	32	53	43	37	32	42	36	32		41	36	32		40	35	31	30
8	50	40	33	29	49	39	33	29	38	33	29		37	32	28		36	32	28	27
9	47	37	30	26	46	36	30	26	35	30	26		35	29	26		34	29	26	24
10	44	34	28	24	43	34	28	24	33	27	24		32	27	23		31	27	23	22

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

	0°	45°	90°
0°	4970	4970	4970
5°	4978	4965	4992
10°	4951	4973	5022
15°	4912	4976	5068
20°	4860	4977	5120
25°	4780	4961	5146
30°	4683	4913	5118
35°	4527	4793	5056
40°	4293	4609	4946
45°	3981	4266	4730
50°	3538	3810	4316
55°	3111	3312	3744
60°	2756	2750	3186
65°	2407	2159	2642
70°	2227	1802	2510
75°	2267	1882	2641
80°	2464	2356	2836
85°	2594	2748	2810



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	175.2	3.8	3.1	0°	1847	1847	1847	1847	1847	
10°-20°	505.0	11.1	8.9	5°	1843	1840	1838	1844	1848	175
20°-30°	769.3	16.8	13.5	15°	1763	1768	1786	1809	1819	497
30°-40°	909.8	19.9	16.0	25°	1610	1628	1671	1713	1733	741
40°-50°	865.1	18.9	15.2	35°	1378	1404	1459	1510	1539	858
50°-60°	649.3	14.2	11.4	45°	1046	1053	1121	1192	1243	800
60°-70°	378.8	8.3	6.6	55°	663	681	706	782	798	599
70°-80°	220.3	4.8	3.9	65°	378	353	339	398	415	380
80°-90°	94.1	2.1	1.7	75°	218	193	181	215	254	231
90°-100°	0.0	0.0	0.0	85°	84	86	89	100	91	91
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1449.5	31.7	25.4							
0°-40°	2359.3	51.7	41.4							
0°-60°	3873.7	84.8	68.0							
0°-90°	4566.8	100.0	80.1							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4566.8	100.0	80.1							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1847	1847	1847	1847	1847
2.5°	1850	1846	1845	1847	1850
5°	1843	1840	1838	1844	1848
7.5°	1828	1828	1832	1838	1844
10°	1812	1813	1820	1832	1838
12.5°	1789	1793	1805	1823	1831
15°	1763	1768	1786	1809	1819
17.5°	1731	1739	1764	1792	1804
20°	1697	1708	1738	1773	1788
22.5°	1655	1670	1708	1746	1762
25°	1610	1628	1671	1713	1733
27.5°	1560	1582	1629	1676	1697
30°	1507	1526	1581	1629	1647
32.5°	1445	1468	1525	1571	1600
35°	1378	1404	1459	1510	1539
37.5°	1301	1330	1392	1443	1481
40°	1222	1250	1312	1371	1408
42.5°	1135	1154	1217	1288	1328
45°	1046	1053	1121	1192	1243
47.5°	939	954	1011	1088	1133
50°	845	857	910	984	1031
52.5°	751	767	813	885	918
55°	663	681	706	782	798
57.5°	589	590	612	678	696
60°	512	502	511	579	592
62.5°	436	420	423	478	495
65°	378	353	339	398	415
67.5°	326	298	277	336	357
70°	283	255	229	286	319
72.5°	245	220	198	247	283
75°	218	193	181	215	254
77.5°	191	169	170	188	221
80°	159	143	152	166	183
82.5°	124	117	123	138	139
85°	84	86	89	100	91
87.5°	46	49	48	51	47
90°	0	0	0	0	0

(END OF REPORT)