

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: P30888

Luminaire Tested: **2GC8IC-232A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30888
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8IC-232A-UNV-EB81
Description: METALUX 2' X 4' 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 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP3x32T8/UNV ISN-SC

Summary

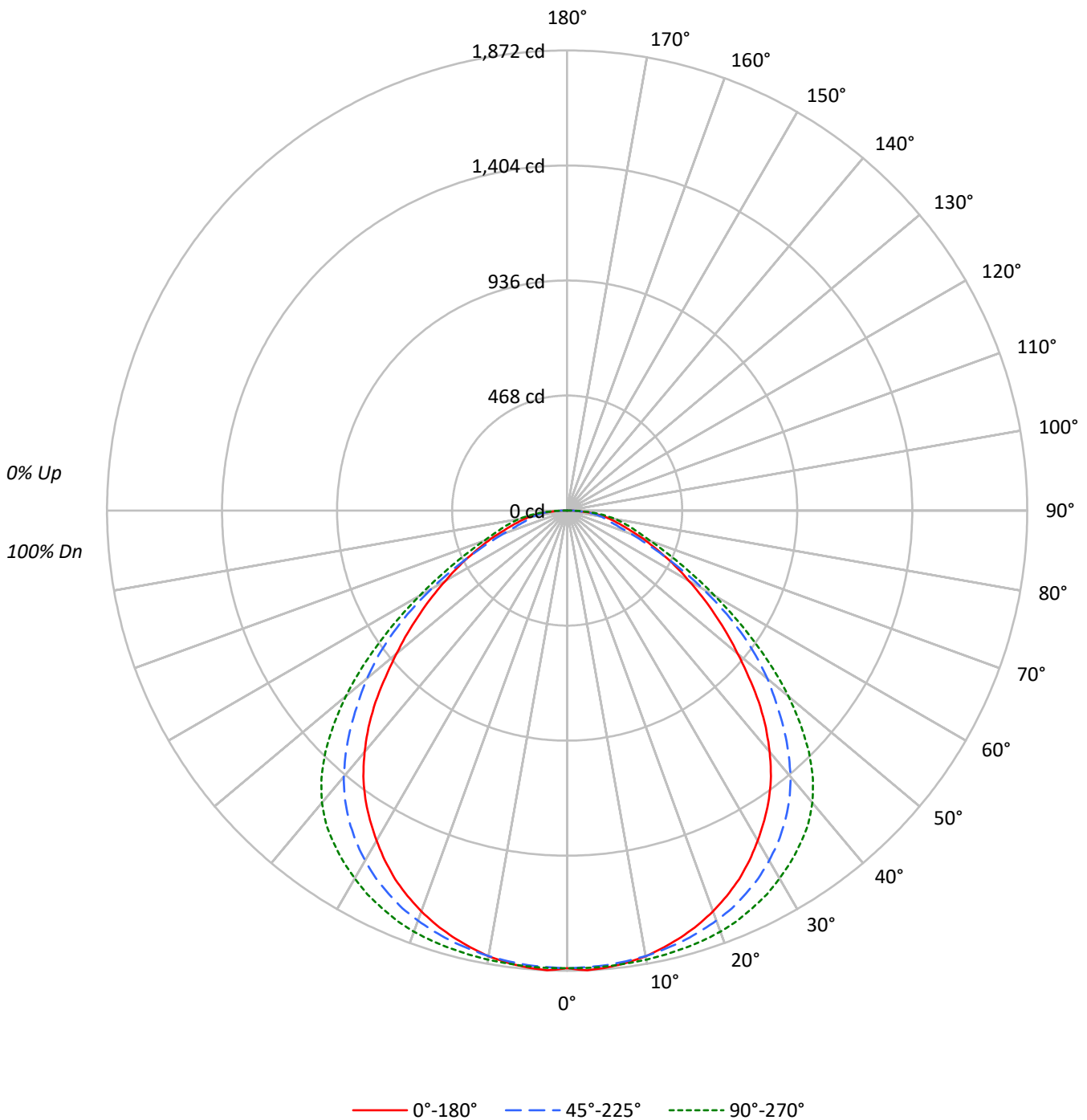
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4947.3 lumens
Efficiency: 79.8%
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.37 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 56.5
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

TEST NUMBER: P30888

CATALOG NUMBER: 2GC8IC-232A-UNV-EB81

Luminous Intensity Polar Plot





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CATALOG NUMBER: 2GC8IC-232A-UNV-EB81

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		81	81	81	80
1	87	84	80	78	85	82	79	76	78	76	74		75	73	72		72	71	69	68
2	80	74	68	64	78	72	67	63	69	65	62		67	63	60		64	62	59	57
3	73	65	59	54	71	64	58	53	62	57	53		59	55	52		57	54	51	49
4	67	58	51	46	65	57	51	46	55	50	45		53	48	45		51	47	44	42
5	62	52	45	40	60	51	45	40	49	44	39		48	43	39		46	42	39	37
6	57	47	40	35	56	46	40	35	45	39	35		43	38	34		42	38	34	32
7	53	43	36	31	52	42	36	31	41	35	31		40	34	31		39	34	30	29
8	50	39	32	28	48	38	32	28	37	32	28		36	31	27		35	31	27	26
9	46	36	29	25	45	35	29	25	34	29	25		34	28	25		33	28	25	23
10	43	33	27	23	42	33	27	23	32	26	23		31	26	22		30	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2988	2988	2988
5°	3006	2989	2997
10°	3000	2998	3022
15°	2983	3013	3062
20°	2963	3031	3113
25°	2930	3045	3158
30°	2874	3046	3202
35°	2805	3026	3240
40°	2685	2962	3251
45°	2503	2823	3156
50°	2262	2654	2936
55°	2045	2414	2602
60°	1836	2047	2221
65°	1659	1640	1898
70°	1511	1295	1689
75°	1426	1147	1680
80°	1515	1303	1839
85°	1620	1565	2044



TEST NUMBER: P30888

CATALOG NUMBER: 2GC8IC-232A-UNV-EB81

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	176.8	3.6	2.9	0°	1862	1862	1862	1862	1862	
10°-20°	512.7	10.4	8.3	5°	1866	1856	1856	1854	1861	177
20°-30°	791.7	16.0	12.8	15°	1796	1795	1814	1829	1843	507
30°-40°	962.6	19.5	15.5	25°	1655	1670	1720	1761	1784	761
40°-50°	956.6	19.3	15.4	35°	1432	1465	1545	1617	1654	892
50°-60°	751.0	15.2	12.1	45°	1103	1146	1244	1343	1391	847
60°-70°	450.7	9.1	7.3	55°	731	770	863	904	930	656
70°-80°	242.9	4.9	3.9	65°	437	413	432	474	500	436
80°-90°	100.1	2.0	1.6	75°	230	212	185	255	271	247
90°-100°	2.1	0.0	0.0	85°	88	83	85	109	111	88
100°-110°	0.0	0.0	0.0	90°	7	12	14	22	21	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°	1481.2	29.9	23.9	165°	0	0	0	0	0	0
0°-40°	2443.8	49.4	39.4	175°	0	0	0	0	0	0
0°-60°	4151.4	83.9	67.0	180°	0	0	0	0	0	0
0°-90°	4945.1	100.0	79.8							
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°	4947.3	100.0	79.8							



TEST NUMBER: P30888

CATALOG NUMBER: 2GC8IC-232A-UNV-EB81

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862	1862	1862	1862	1862
2.5°	1872	1861	1859	1856	1862
5°	1866	1856	1856	1854	1861
7.5°	1855	1847	1849	1850	1858
10°	1841	1834	1840	1845	1855
12.5°	1820	1816	1828	1838	1850
15°	1796	1795	1814	1829	1843
17.5°	1768	1770	1796	1818	1835
20°	1735	1742	1775	1804	1823
22.5°	1697	1710	1751	1786	1807
25°	1655	1670	1720	1761	1784
27.5°	1605	1628	1686	1734	1760
30°	1551	1577	1644	1698	1728
32.5°	1493	1524	1598	1661	1694
35°	1432	1465	1545	1617	1654
37.5°	1362	1397	1485	1566	1610
40°	1282	1321	1414	1503	1552
42.5°	1196	1237	1332	1431	1480
45°	1103	1146	1244	1343	1391
47.5°	1002	1053	1152	1245	1288
50°	906	962	1063	1138	1176
52.5°	818	867	967	1023	1055
55°	731	770	863	904	930
57.5°	650	674	752	783	807
60°	572	580	638	666	692
62.5°	503	493	531	564	591
65°	437	413	432	474	500
67.5°	376	347	345	400	424
70°	322	290	276	344	360
72.5°	270	247	222	295	311
75°	230	212	185	255	271
77.5°	194	180	161	218	235
80°	164	148	141	183	199
82.5°	129	116	117	150	158
85°	88	83	85	109	111
87.5°	46	48	46	62	62
90°	7	12	14	22	21
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



TEST NUMBER: P30888

CATALOG NUMBER: 2GC8IC-232A-UNV-EB81

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)