

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: 104P202

Luminaire Tested: **2PGX-232S28I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P202
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-232S28I-PAF
Description: 2 X 4 Recessed Convertible Body Troffer with
a 4" deep 16 cell semi-specular low iridescent
parabolic louver.
Light Source: Two-F32T8/835 - 3050 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance RIC-2S32-TP Electronic

Summary

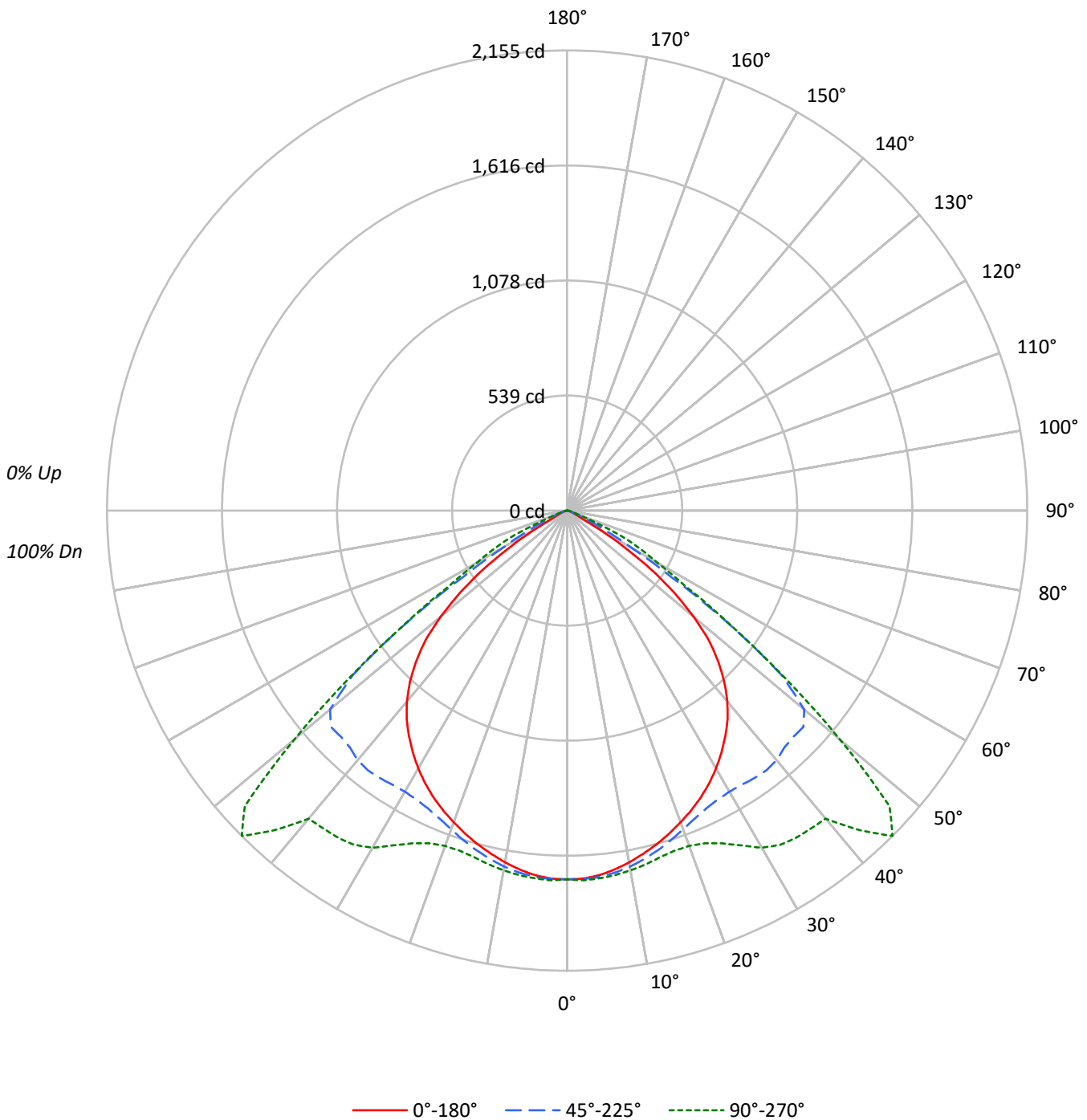
Lumens per Lamp: 3050 (2 lamps)
Luminaire Lumens: 4386.1 lumens
Efficiency: 71.9%
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.65 / 1.61
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.8
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	86	86	86	86	84	84	84	84	80	80	80		76	76	76		73	73	73	72
1	80	77	75	73	78	76	74	72	73	71	69		70	69	67		67	66	65	64
2	74	69	65	62	72	68	64	61	65	62	60		63	61	58		61	59	57	56
3	68	62	57	53	67	61	56	52	59	55	51		57	53	50		55	52	50	48
4	63	55	50	45	61	54	49	45	53	48	45		51	47	44		49	46	43	42
5	58	50	44	39	57	49	43	39	47	43	39		46	42	38		45	41	38	37
6	54	45	39	35	52	44	39	34	43	38	34		42	37	34		41	37	34	32
7	50	41	35	31	48	40	34	31	39	34	30		38	33	30		37	33	30	29
8	46	37	31	27	45	37	31	27	36	31	27		35	30	27		34	30	27	25
9	43	34	28	24	42	33	28	24	33	28	24		32	27	24		31	27	24	23
10	40	31	26	22	39	31	26	22	30	25	22		29	25	22		29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2846	2846	2846
5°	2835	2848	2860
10°	2799	2833	2863
15°	2760	2808	2868
20°	2723	2785	2930
25°	2693	2800	3125
30°	2652	2892	3469
35°	2597	3076	3762
40°	2510	3282	4050
45°	2335	3491	5022
50°	1982	3714	4276
55°	1373	2657	2672
60°	511	1127	1602
65°	175	476	1060
70°	111	198	279
75°	83	134	153
80°	66	95	104
85°	38	57	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	163.4	3.7	2.7	0°	1727	1727	1727	1727	1727	
10°-20°	465.6	10.6	7.6	5°	1714	1717	1722	1724	1729	162
20°-30°	728.7	16.6	11.9	15°	1618	1628	1646	1668	1681	456
30°-40°	968.3	22.1	15.9	25°	1481	1495	1540	1649	1719	682
40°-50°	1144.6	26.1	18.8	35°	1291	1321	1529	1756	1870	806
50°-60°	732.3	16.7	12.0	45°	1002	1127	1498	1873	2155	763
60°-70°	155.8	3.6	2.6	55°	478	726	925	926	930	417
70°-80°	23.3	0.5	0.4	65°	45	66	122	212	272	58
80°-90°	4.1	0.1	0.1	75°	13	17	21	25	24	14
90°-100°	0.0	0.0	0.0	85°	2	3	3	4	3	3
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1357.7	31.0	22.3	165°	0	0	0	0	0	0
0°-40°	2325.9	53.0	38.1	175°	0	0	0	0	0	0
0°-60°	4202.9	95.8	68.9	180°	0	0	0	0	0	0
0°-90°	4386.1	100.0	71.9							
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°	4386.1	100.0	71.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1727	1727	1727	1727	1727
2.5°	1725	1725	1727	1727	1733
5°	1714	1717	1722	1724	1729
7.5°	1696	1702	1710	1716	1722
10°	1673	1681	1693	1704	1711
12.5°	1646	1655	1671	1688	1697
15°	1618	1628	1646	1668	1681
17.5°	1587	1598	1618	1649	1670
20°	1553	1566	1588	1638	1671
22.5°	1519	1532	1561	1637	1686
25°	1481	1495	1540	1649	1719
27.5°	1440	1456	1526	1675	1768
30°	1394	1414	1520	1711	1823
32.5°	1344	1369	1522	1746	1856
35°	1291	1321	1529	1756	1870
37.5°	1234	1274	1533	1752	1876
40°	1167	1228	1526	1752	1883
42.5°	1090	1179	1505	1792	2030
45°	1002	1127	1498	1873	2155
47.5°	900	1070	1500	1861	2048
50°	773	998	1449	1622	1668
52.5°	631	888	1265	1237	1281
55°	478	726	925	926	930
57.5°	309	511	579	664	653
60°	155	286	342	466	486
62.5°	72	130	210	329	382
65°	45	66	122	212	272
67.5°	32	43	67	110	124
70°	23	31	41	55	58
72.5°	17	23	28	35	36
75°	13	17	21	25	24
77.5°	9	12	14	17	17
80°	7	9	10	12	11
82.5°	4	5	6	7	7
85°	2	3	3	4	3
87.5°	1	1	1	1	1
90°	0	0	0	0	0
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)