

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: 229P100

Luminaire Tested: **P2GX2048-332S36I**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 229P100  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: P2GX2048-332S36I  
Description: 20 X 48 Recessed Convertible Body Luminaire with a  
2" deep 18 cell semi-specular low iridescent parabolic louver  
Light Source: Three - FO32T8/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F. = 85.4

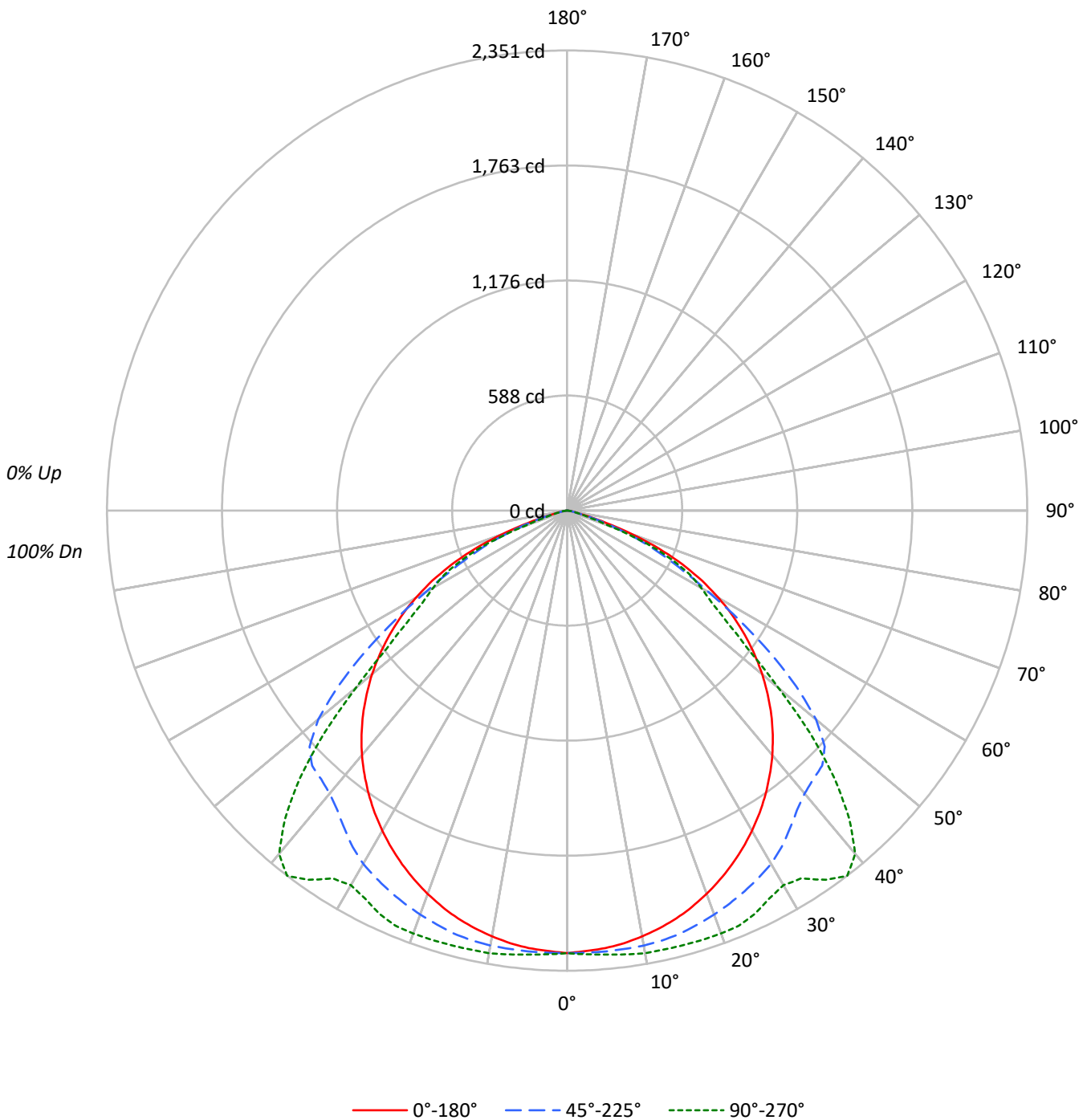
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6195.2 lumens  
Efficiency: 73.8%  
Efficacy: 74.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.58 / 1.52  
Luminous Opening: Rectangular (W 1.42' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 83  
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: 229P100  
CATALOG NUMBER: P2GX2048-332S36I

### Luminous Intensity Polar Plot





TEST NUMBER: 229P100

CATALOG NUMBER: P2GX2048-332S36I

**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	88	88	88	88	86	86	86	86	82	82	82		78	78	78		75	75	75	74
1	81	78	76	73	80	77	74	72	74	72	70		71	69	68		68	67	66	64
2	75	69	65	61	73	68	64	61	66	62	59		63	60	58		61	59	57	55
3	69	62	56	52	67	60	55	51	58	54	50		56	53	49		54	51	49	47
4	63	55	49	44	61	54	48	44	52	47	43		50	46	43		49	45	42	41
5	58	49	43	38	56	48	42	38	47	42	38		45	41	37		44	40	37	35
6	54	44	38	33	52	43	38	33	42	37	33		41	36	33		40	36	32	31
7	50	40	34	29	48	39	34	29	38	33	29		37	32	29		36	32	29	27
8	46	36	30	26	45	36	30	26	35	30	26		34	29	26		33	29	26	24
9	43	33	28	24	42	33	27	23	32	27	23		31	27	23		31	26	23	22
10	40	31	25	21	39	30	25	21	30	25	21		29	24	21		28	24	21	20

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

	0°	45°	90°
0°	4581	4581	4581
5°	4564	4599	4631
10°	4545	4641	4724
15°	4524	4692	4820
20°	4493	4735	4957
25°	4458	4798	5079
30°	4419	4876	5170
35°	4373	4907	5696
40°	4314	4991	6054
45°	4226	5281	5530
50°	4101	5229	4438
55°	3914	4465	3529
60°	3627	3392	3205
65°	3111	2579	2809
70°	2109	1688	1386
75°	720	673	579
80°	350	303	338
85°	209	163	163



TEST NUMBER: 229P100

CATALOG NUMBER: P2GX2048-332S36I

**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	215.6	3.5	2.6	0°	2261	2261	2261	2261	2261	
10°-20°	630.8	10.2	7.5	5°	2244	2250	2261	2270	2277	213
20°-30°	987.1	15.9	11.8	15°	2157	2182	2237	2277	2298	608
30°-40°	1259.1	20.3	15.0	25°	1994	2051	2146	2238	2272	919
40°-50°	1352.3	21.8	16.1	35°	1768	1852	1984	2149	2303	1105
50°-60°	1031.9	16.7	12.3	45°	1475	1599	1843	1949	1930	1136
60°-70°	587.6	9.5	7.0	55°	1108	1241	1264	1023	999	987
70°-80°	120.1	1.9	1.4	65°	649	713	538	552	586	632
80°-90°	10.9	0.2	0.1	75°	92	90	86	73	74	142
90°-100°	0.0	0.0	0.0	85°	9	8	7	7	7	12
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°	1833.4	29.6	21.8	165°	0	0	0	0	0	0
0°-40°	3092.5	49.9	36.8	175°	0	0	0	0	0	0
0°-60°	5476.7	88.4	65.2	180°	0	0	0	0	0	0
0°-90°	6195.2	100.0	73.8							
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°	6195.2	100.0	73.8							



TEST NUMBER: 229P100

CATALOG NUMBER: P2GX2048-332S36I

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2261	2261	2261	2261	2261
2.5°	2252	2256	2261	2265	2269
5°	2244	2250	2261	2270	2277
7.5°	2229	2239	2259	2277	2287
10°	2209	2224	2256	2283	2296
12.5°	2185	2205	2249	2282	2297
15°	2157	2182	2237	2277	2298
17.5°	2123	2156	2217	2272	2300
20°	2084	2125	2196	2266	2299
22.5°	2041	2090	2172	2256	2295
25°	1994	2051	2146	2238	2272
27.5°	1943	2007	2116	2202	2235
30°	1889	1958	2084	2159	2210
32.5°	1830	1907	2039	2134	2228
35°	1768	1852	1984	2149	2303
37.5°	1701	1795	1929	2200	2351
40°	1631	1734	1887	2209	2289
42.5°	1555	1668	1861	2119	2133
45°	1475	1599	1843	1949	1930
47.5°	1390	1524	1785	1739	1683
50°	1301	1439	1659	1492	1408
52.5°	1207	1344	1475	1234	1167
55°	1108	1241	1264	1023	999
57.5°	1005	1130	1043	870	875
60°	895	1011	837	753	791
62.5°	777	875	673	659	707
65°	649	713	538	552	586
67.5°	508	529	412	420	440
70°	356	349	285	275	234
72.5°	209	194	172	130	121
75°	92	90	86	73	74
77.5°	48	45	42	46	47
80°	30	28	26	28	29
82.5°	18	16	15	16	16
85°	9	8	7	7	7
87.5°	3	3	3	2	2
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



TEST NUMBER: 229P100

CATALOG NUMBER: P2GX2048-332S36I

**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)