

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: 104P238

Luminaire Tested: **2P2GX-332S613I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P238
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GX-332S613I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 2"
deep 78 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic L.O.B.F. = 89.5%

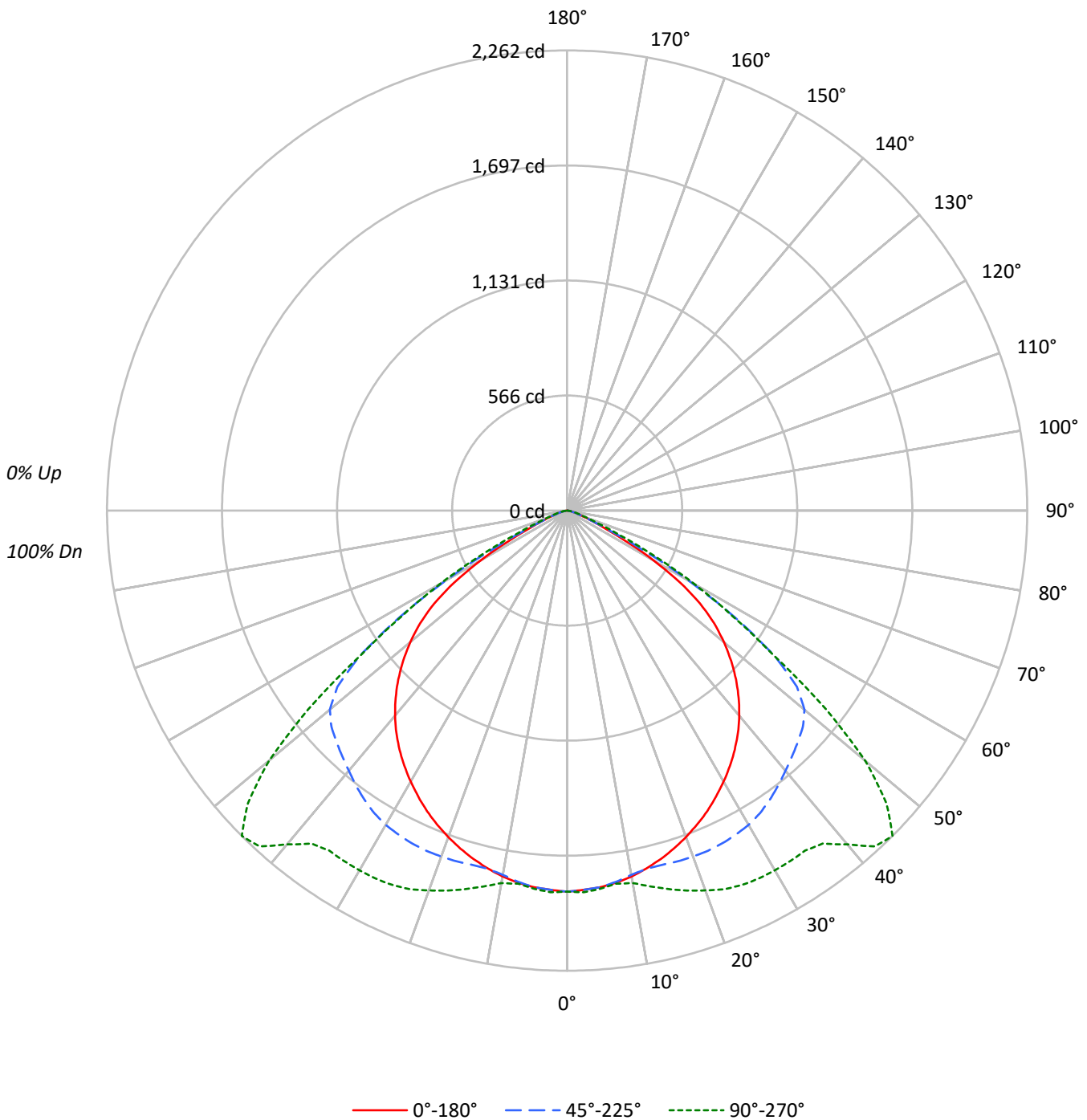
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5203.3 lumens
Efficiency: 61.9%
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.74 / 1.59
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 86.8
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	50	30	10	0	
RCR																						
0	74	74	74	74	72	72	72	72	69	69	69	66	66	66	63	63	63	63	63	63	62	
1	69	66	64	62	67	65	63	61	62	61	59	60	59	58	58	57	56	58	57	56	55	
2	63	59	55	52	62	58	54	52	56	53	51	54	51	49	52	50	48	52	50	48	47	
3	58	52	48	44	57	51	47	44	50	46	43	48	45	42	46	44	42	46	44	42	41	
4	53	47	42	38	52	46	41	38	44	40	37	43	40	37	42	39	36	42	39	36	35	
5	49	42	37	33	48	41	36	33	40	36	32	39	35	32	38	34	32	38	34	32	30	
6	45	38	32	29	44	37	32	29	36	32	28	35	31	28	34	31	28	34	31	28	27	
7	42	34	29	25	41	34	29	25	33	28	25	32	28	25	31	27	25	31	27	25	23	
8	39	31	26	22	38	31	26	22	30	25	22	29	25	22	28	25	22	28	25	22	21	
9	36	28	23	20	36	28	23	20	27	23	20	27	23	20	26	22	20	26	22	20	19	
10	34	26	21	18	33	26	21	18	25	21	18	25	21	18	24	20	18	24	20	18	17	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3082	3082	3082
5°	3071	3069	3082
10°	3051	3038	3106
15°	3022	3071	3281
20°	2991	3169	3479
25°	2959	3277	3687
30°	2922	3390	3880
35°	2885	3487	4098
40°	2827	3587	4601
45°	2732	3735	5264
50°	2578	3899	4900
55°	2289	3566	3546
60°	1616	2271	2379
65°	767	872	1102
70°	404	380	496
75°	254	229	286
80°	171	142	171
85°	94	76	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	176.5	3.4	2.1	0°	1873	1873	1873	1873	1873	
10°-20°	517.7	9.9	6.2	5°	1859	1858	1858	1861	1866	176
20°-30°	835.3	16.1	9.9	15°	1774	1766	1803	1888	1926	500
30°-40°	1087.4	20.9	12.9	25°	1630	1642	1805	1960	2031	751
40°-50°	1266.3	24.3	15.1	35°	1436	1524	1736	1927	2040	897
50°-60°	979.4	18.8	11.7	45°	1174	1332	1605	2018	2262	902
60°-70°	287.7	5.5	3.4	55°	798	982	1243	1227	1236	695
70°-80°	46.4	0.9	0.6	65°	197	239	224	271	283	229
80°-90°	6.6	0.1	0.1	75°	40	39	36	40	45	46
90°-100°	0.0	0.0	0.0	85°	5	5	4	4	4	7
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°	1529.5	29.4	18.2	165°	0	0	0	0	0	0
0°-40°	2616.9	50.3	31.2	175°	0	0	0	0	0	0
0°-60°	4862.6	93.5	57.9	180°	0	0	0	0	0	0
0°-90°	5203.3	100.0	61.9							
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°	5203.3	100.0	61.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1873	1873	1873	1873	1873
2.5°	1866	1866	1866	1871	1878
5°	1859	1858	1858	1861	1866
7.5°	1845	1845	1841	1840	1850
10°	1826	1825	1818	1840	1859
12.5°	1802	1797	1803	1863	1892
15°	1774	1766	1803	1888	1926
17.5°	1743	1732	1808	1912	1959
20°	1708	1700	1810	1932	1987
22.5°	1670	1669	1810	1948	2015
25°	1630	1642	1805	1960	2031
27.5°	1585	1617	1796	1959	2039
30°	1538	1589	1784	1952	2042
32.5°	1489	1558	1764	1941	2042
35°	1436	1524	1736	1927	2040
37.5°	1379	1486	1704	1916	2063
40°	1316	1443	1670	1931	2142
42.5°	1248	1391	1637	1979	2239
45°	1174	1332	1605	2018	2262
47.5°	1093	1264	1572	1966	2129
50°	1007	1186	1523	1790	1914
52.5°	911	1095	1424	1540	1604
55°	798	982	1243	1227	1236
57.5°	660	831	980	913	961
60°	491	631	690	670	723
62.5°	322	413	420	452	485
65°	197	239	224	271	283
67.5°	125	138	125	152	161
70°	84	87	79	92	103
72.5°	57	58	53	60	69
75°	40	39	36	40	45
77.5°	27	27	24	26	29
80°	18	17	15	16	18
82.5°	11	10	9	9	9
85°	5	5	4	4	4
87.5°	2	2	2	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



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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)