

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: 150P123

Luminaire Tested: **P5GX-232S112MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 150P123
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P5GX-232S112MI
Description: 1 X 4 Recessed Convertible Body Luminaire with a 12 cell specular low iridescent precision cell II parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

Summary

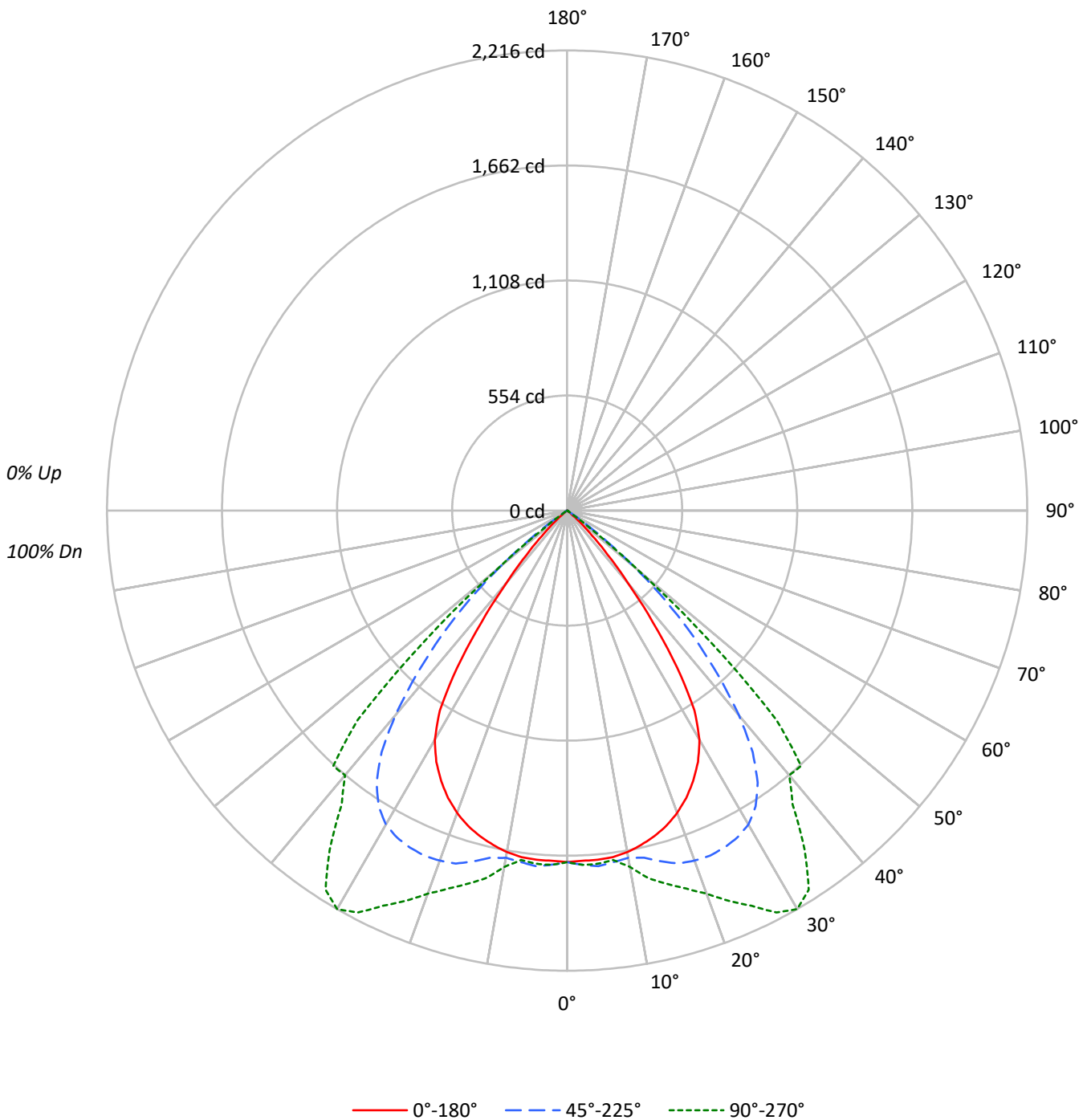
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3114.6 lumens
Efficiency: 55.6%
Efficacy: 53.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.32
Luminous Opening: Rectangular (W 0.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 57.9
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	0
RCR																				
0	66	66	66	66	65	65	65	65	62	62	62		59	59	59		57	57	57	56
1	63	61	59	58	61	60	58	57	57	56	55		55	54	54		53	53	52	51
2	59	56	53	51	58	55	52	50	53	51	49		51	50	48		50	48	47	46
3	55	51	48	45	54	50	47	45	49	46	44		47	45	43		46	44	43	42
4	52	47	43	40	51	46	43	40	45	42	40		44	41	39		43	40	39	38
5	48	43	39	36	47	42	39	36	41	38	36		40	38	35		39	37	35	34
6	45	40	36	33	44	39	35	33	38	35	32		37	34	32		37	34	32	31
7	42	36	32	30	42	36	32	30	35	32	29		35	32	29		34	31	29	28
8	40	34	30	27	39	33	30	27	33	29	27		32	29	27		31	29	27	26
9	37	31	27	25	37	31	27	25	30	27	25		30	27	25		29	26	24	24
10	35	29	25	23	35	29	25	23	28	25	23		28	25	23		27	24	22	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6552	6552	6552
5°	6558	6678	6632
10°	6563	6673	6846
15°	6503	7008	7457
20°	6380	7389	8085
25°	6132	7648	8968
30°	5693	7803	9903
35°	4370	7560	9426
40°	2299	6497	8407
45°	925	4724	7805
50°	163	2529	2697
55°	47	506	189
60°	31	54	62
65°	18	27	37
70°	23	23	23
75°	15	15	15
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	162.8	5.2	2.9	0°	1693	1693	1693	1693	1693	
10°-20°	495.4	15.9	8.8	5°	1688	1704	1719	1715	1707	161
20°-30°	821.2	26.4	14.7	15°	1623	1653	1749	1848	1861	457
30°-40°	943.4	30.3	16.8	25°	1436	1543	1791	2021	2100	657
40°-50°	599.2	19.2	10.7	35°	925	1171	1600	1969	1995	556
50°-60°	87.8	2.8	1.6	45°	169	323	863	1266	1426	146
60°-70°	3.6	0.1	0.1	55°	7	11	75	106	28	8
70°-80°	1.1	0.0	0.0	65°	2	3	3	4	4	2
80°-90°	0.1	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	1479.4	47.5	26.4	165°	0	0	0	0	0	0
0°-40°	2422.8	77.8	43.3	175°	0	0	0	0	0	0
0°-60°	3109.7	99.8	55.5	180°	0	0	0	0	0	0
0°-90°	3114.6	100.0	55.6							
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°	3114.6	100.0	55.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693	1693	1693	1693	1693
2.5°	1688	1694	1707	1713	1708
5°	1688	1704	1719	1715	1707
7.5°	1683	1712	1707	1700	1697
10°	1670	1704	1698	1731	1742
12.5°	1649	1680	1712	1796	1814
15°	1623	1653	1749	1848	1861
17.5°	1591	1625	1782	1889	1909
20°	1549	1598	1794	1928	1963
22.5°	1498	1574	1798	1972	2034
25°	1436	1543	1791	2021	2100
27.5°	1364	1496	1775	2067	2182
30°	1274	1424	1746	2101	2216
32.5°	1142	1323	1689	2073	2165
35°	925	1171	1600	1969	1995
37.5°	678	950	1468	1799	1784
40°	455	712	1286	1589	1664
42.5°	289	497	1078	1419	1668
45°	169	323	863	1266	1426
47.5°	79	185	645	982	941
50°	27	85	420	638	448
52.5°	10	30	216	331	144
55°	7	11	75	106	28
57.5°	5	7	16	18	12
60°	4	5	7	8	8
62.5°	3	4	5	6	6
65°	2	3	3	4	4
67.5°	2	2	2	3	3
70°	2	2	2	2	2
72.5°	1	1	1	2	1
75°	1	1	1	1	1
77.5°	0	1	1	1	1
80°	0	1	0	0	0
82.5°	1	0	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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)