

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: ITL46503

Luminaire Tested: **2P5GAX-2BX40S24MI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL46503  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2P5GAX-2BX40S24MI  
Description: FABRICATED METAL HOUSING, WHITE PAINTED GENERAL INTERIOR FINISH, WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED SPECULAR METAL PARABOLIC 8-CELL LOUVER.  
Light Source: TWO SINGLE ENDED TWIN TUBE FLUORESCENTS, G.E. F40BX/SPX35/RS. LAMPS HORIZONTAL WITH TUBES VERTICAL.  
Ballast/Driver: MAGNETEK TRIAD B240I120HP (BALLAST FACTOR: 91.8%).

**Summary**

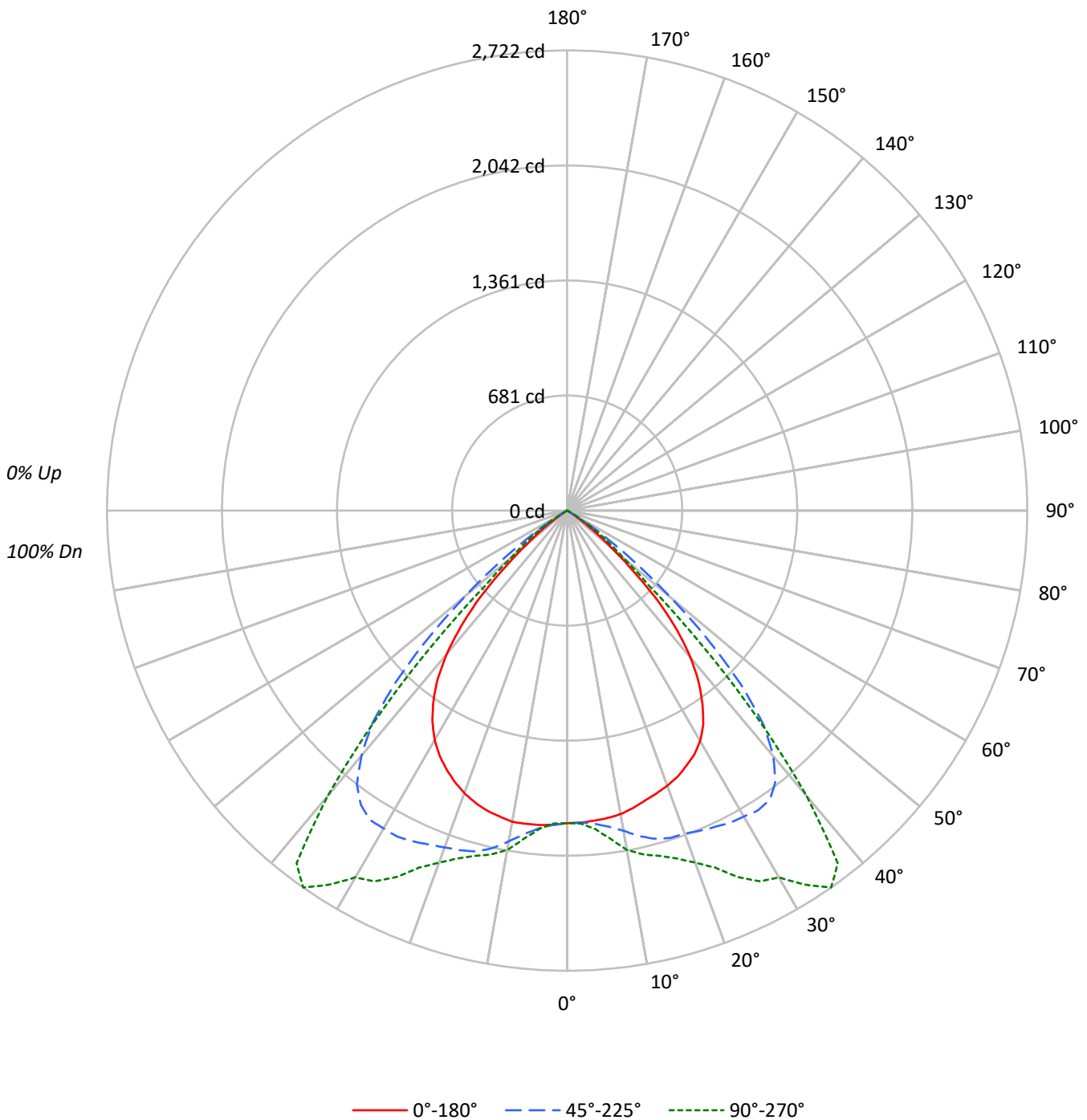
Lumens per Lamp: 3150 (2 lamps)  
Luminaire Lumens: 4093.9 lumens  
Efficiency: 65.0%  
Efficacy: 59.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.71 / 1.45  
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')  
CIE Type: Direct

Input Watts (W): 69.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	77	77	77	77	76	76	76	76	72	72	72		69	69	69		66	66	66	65
1	73	71	69	67	71	70	68	66	67	65	64		64	63	62		62	61	60	59
2	68	65	61	59	67	63	61	58	61	59	57		59	57	56		57	56	54	53
3	64	59	55	52	63	58	54	51	56	53	51		54	52	50		53	51	49	48
4	60	54	49	46	58	53	49	46	51	48	45		50	47	45		49	46	44	43
5	56	49	44	41	54	48	44	41	47	43	40		46	43	40		45	42	40	38
6	52	45	40	37	51	44	40	37	43	39	36		42	39	36		41	38	36	35
7	48	41	36	33	47	41	36	33	40	36	33		39	35	33		38	35	32	31
8	45	38	33	30	44	37	33	30	37	33	30		36	32	30		35	32	29	28
9	43	35	30	27	42	35	30	27	34	30	27		33	30	27		33	29	27	26
10	40	32	28	25	39	32	28	25	31	27	25		31	27	25		30	27	24	23

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

	0°	90°	180°
0°	6499	6499	6499
5°	6496	6672	6587
10°	6506	7274	6671
15°	6463	7696	6685
20°	6478	8289	6651
25°	6465	9273	6546
30°	6388	10167	6360
35°	5981	11680	5921
40°	5212	10090	5084
45°	3818	5612	3644
50°	1897	2335	1717
55°	539	1244	539
60°	49	155	49
65°	42	50	42
70°	21	21	21
75°	0	0	0
80°	0	0	0
85°	0	0	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	181.2	4.4	2.9	0°	1849	1849	1849	1849	1849	
10°-20°	567.6	13.9	9.0	5°	1841	1859	1891	1886	1867	175
20°-30°	964.9	23.6	15.3	15°	1776	2010	2115	2088	1837	503
30°-40°	1273.8	31.1	20.2	25°	1667	2065	2391	2159	1688	768
40°-50°	898.4	21.9	14.3	35°	1394	2089	2722	2127	1380	862
50°-60°	198.4	4.8	3.1	45°	768	1449	1129	1430	733	574
60°-70°	9.0	0.2	0.1	55°	88	282	203	269	88	109
70°-80°	0.6	0.0	0.0	65°	5	7	6	7	5	5
80°-90°	0.0	0.0	0.0	75°	0	0	0	0	0	0
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	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1713.7	41.9	27.2							
0°-40°	2987.5	73.0	47.4							
0°-60°	4084.4	99.8	64.8							
0°-90°	4093.9	100.0	65.0							
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°	4093.9	100.0	65.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1849	1849	1849	1849	1849	1849	1849	1849	1849
2.5°	1848	1847	1847	1852	1853	1859	1860	1860	1860
5°	1841	1845	1859	1879	1891	1895	1886	1874	1867
7.5°	1834	1843	1886	1931	1957	1958	1929	1891	1869
10°	1823	1844	1923	2004	2038	2037	1986	1909	1869
12.5°	1802	1845	1972	2057	2083	2093	2046	1920	1853
15°	1776	1841	2010	2085	2115	2122	2088	1932	1837
17.5°	1755	1847	2030	2120	2157	2166	2106	1945	1811
20°	1732	1856	2033	2156	2216	2213	2120	1951	1778
22.5°	1704	1861	2050	2213	2285	2277	2138	1943	1737
25°	1667	1854	2065	2270	2391	2351	2159	1919	1688
27.5°	1627	1833	2083	2360	2472	2443	2175	1880	1634
30°	1574	1802	2090	2395	2505	2502	2171	1823	1567
32.5°	1499	1748	2102	2369	2624	2480	2170	1747	1483
35°	1394	1675	2089	2416	2722	2556	2127	1656	1380
37.5°	1278	1575	2023	2388	2629	2543	2043	1543	1259
40°	1136	1440	1897	2203	2199	2331	1893	1399	1108
42.5°	968	1252	1719	1777	1678	1875	1703	1199	929
45°	768	1017	1449	1339	1129	1400	1430	949	733
47.5°	531	753	1127	890	656	915	1108	688	503
50°	347	492	800	540	427	544	781	447	314
52.5°	212	261	512	353	305	354	502	234	193
55°	88	118	282	237	203	237	269	106	88
57.5°	21	41	123	128	84	129	116	33	19
60°	7	12	48	47	22	43	47	10	7
62.5°	7	7	17	13	7	12	17	8	7
65°	5	5	7	6	6	7	7	6	5
67.5°	5	3	3	5	5	6	3	3	2
70°	2	2	2	2	2	2	2	3	2
72.5°	0	2	0	1	2	2	1	1	0
75°	0	0	0	0	0	0	0	0	0
77.5°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
82.5°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
87.5°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)