

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: ITL46504

Luminaire Tested: **2P5GAX-2U15/8S24MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL46504
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P5GAX-2U15/8S24MI
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 U-LAMP FLUORESCENTS, SYLVANIA OCTRON FBO31/41K/1.75. LAMPS HORIZONTAL WITH TUBES HORIZONTAL.
Ballast/Driver: MAGNETEK TRIAD B232I120RH (BALLAST FACTOR: 88.7%).

Summary

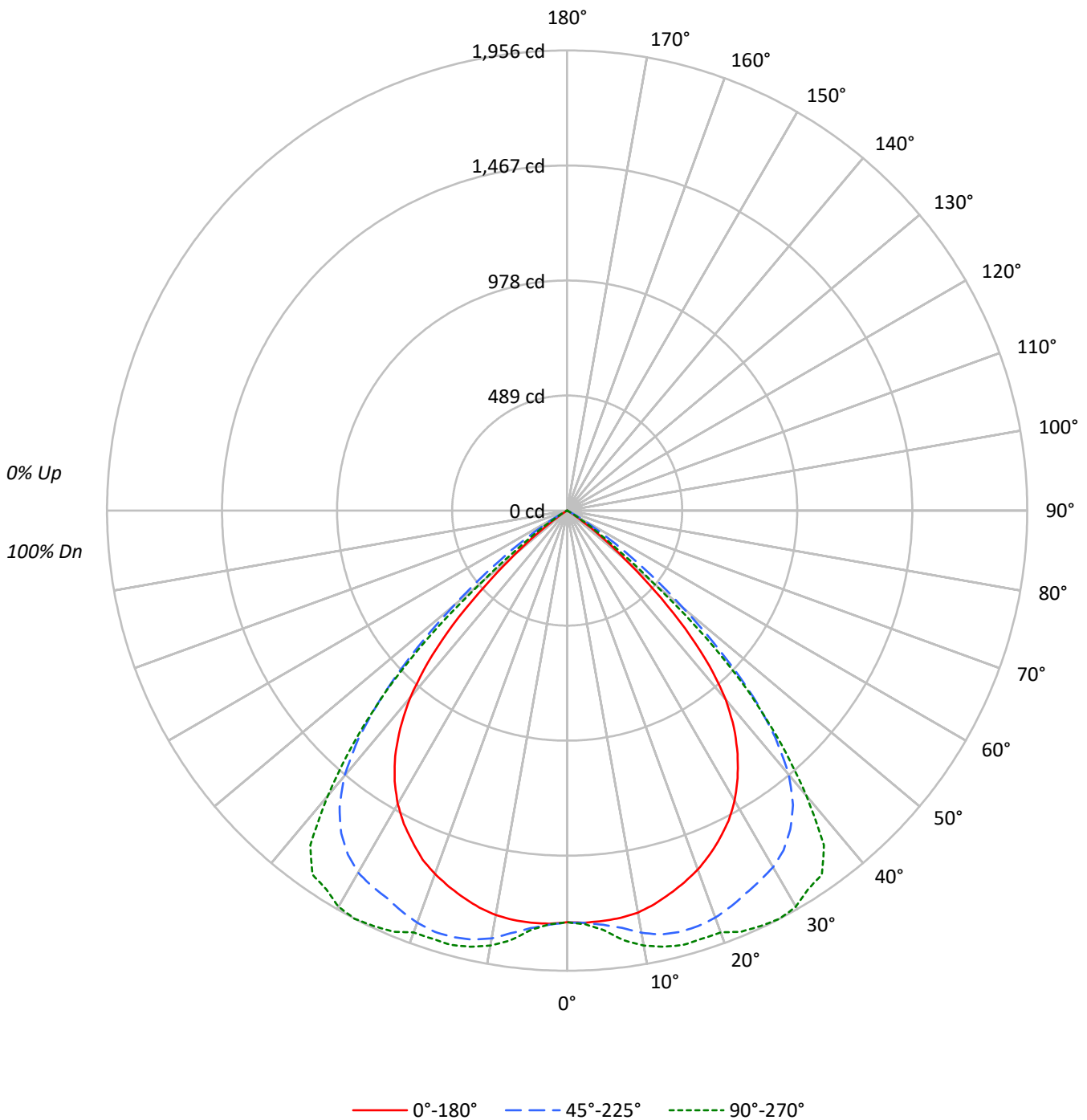
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3447.9 lumens
Efficiency: 61.6%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.55 / 1.37
Luminous Opening: Rectangular (W 1.74' x L: 1.76' x H: 0')
CIE Type: Direct

Input Watts (W): 53.7
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																		
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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	73	73	73	73	72	72	72	72	68	68	68	65	65	65	63	63	63	62																												
1	69	67	65	64	68	66	64	63	63	62	61	61	60	59	59	58	57	56																												
2	65	61	58	56	63	60	58	55	58	56	54	56	54	53	55	53	52	51																												
3	61	56	52	49	59	55	52	49	53	50	48	52	49	47	50	48	47	45																												
4	57	51	47	44	55	50	46	44	49	46	43	48	45	42	46	44	42	41																												
5	53	47	42	39	52	46	42	39	45	41	39	44	41	38	43	40	38	37																												
6	49	43	38	35	48	42	38	35	41	38	35	40	37	34	39	37	34	33																												
7	46	39	35	32	45	39	35	32	38	34	31	37	34	31	36	33	31	30																												
8	43	36	32	29	42	36	32	29	35	31	29	34	31	28	34	31	28	27																												
9	41	34	29	26	40	33	29	26	33	29	26	32	28	26	31	28	26	25																												
10	38	31	27	24	38	31	27	24	30	26	24	30	26	24	29	26	24	23																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	6151	6151	6151
5°	6178	6316	6203
10°	6192	6699	6232
15°	6135	6954	6197
20°	6074	7137	6146
25°	5961	7555	6031
30°	5779	7890	5844
35°	5419	8101	5471
40°	4813	7259	4763
45°	3524	5438	3430
50°	1722	2592	1575
55°	496	846	337
60°	63	112	49
65°	17	17	17
70°	21	21	21
75°	27	27	27
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°	170.8	5.0	3.1	0°	1750	1750	1750	1750	1750	
10°-20°	518.0	15.0	9.3	5°	1751	1767	1790	1782	1758	167
20°-30°	825.6	23.9	14.7	15°	1686	1854	1911	1877	1703	476
30°-40°	1001.2	29.0	17.9	25°	1537	1796	1948	1816	1555	707
40°-50°	746.1	21.6	13.3	35°	1263	1654	1888	1675	1275	783
50°-60°	178.3	5.2	3.2	45°	709	1118	1094	1102	690	533
60°-70°	6.4	0.2	0.1	55°	81	273	138	254	55	98
70°-80°	1.5	0.0	0.0	65°	2	2	2	3	2	4
80°-90°	0.0	0.0	0.0	75°	2	2	2	2	2	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	
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°	1514.4	43.9	27.0							
0°-40°	2515.6	73.0	44.9							
0°-60°	3440.0	99.8	61.4							
0°-90°	3447.9	100.0	61.6							
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°	3447.9	100.0	61.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1750	1750	1750	1750	1750	1750	1750	1750	1750
2.5°	1753	1747	1754	1759	1760	1761	1762	1755	1758
5°	1751	1750	1767	1782	1790	1790	1782	1764	1758
7.5°	1746	1753	1789	1829	1842	1838	1811	1770	1755
10°	1735	1754	1822	1866	1877	1877	1846	1775	1746
12.5°	1714	1751	1846	1885	1899	1896	1868	1777	1728
15°	1686	1745	1854	1902	1911	1911	1877	1776	1703
17.5°	1657	1739	1852	1903	1908	1913	1877	1769	1675
20°	1624	1728	1841	1895	1908	1904	1864	1758	1643
22.5°	1583	1707	1821	1900	1937	1917	1842	1735	1606
25°	1537	1675	1796	1912	1948	1931	1816	1699	1555
27.5°	1486	1635	1774	1912	1956	1931	1799	1655	1502
30°	1424	1582	1750	1897	1944	1920	1777	1599	1440
32.5°	1348	1516	1712	1859	1907	1883	1734	1528	1364
35°	1263	1432	1654	1780	1888	1812	1675	1435	1275
37.5°	1166	1337	1577	1712	1793	1739	1589	1328	1166
40°	1049	1222	1466	1574	1582	1594	1472	1195	1038
42.5°	895	1070	1310	1345	1349	1367	1311	1028	877
45°	709	860	1118	1118	1094	1127	1102	831	690
47.5°	506	636	879	864	800	865	864	606	467
50°	315	426	644	610	474	587	626	389	288
52.5°	186	250	444	353	252	338	426	222	150
55°	81	132	273	183	138	177	254	106	55
57.5°	21	47	137	89	58	87	122	32	16
60°	9	12	53	32	16	30	44	9	7
62.5°	7	7	15	7	5	8	12	5	5
65°	2	3	2	2	2	3	3	3	2
67.5°	2	2	2	2	2	2	2	2	2
70°	2	2	2	2	2	2	2	2	2
72.5°	2	2	2	2	2	2	2	2	2
75°	2	2	2	2	2	2	2	2	2
77.5°	0	0	0	0	2	2	0	1	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)