

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: 220p227

Luminaire Tested: **2P2GAX-254S26I-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 220p227
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2P2GAX-254S26I-EBT1
Description: 2X4 EP2GX RECESSED LUMINAIRE WITH 12 CELL SILVER PARABOLIC
LOUVER, 86% PRE-PAINT HOUSING
Light Source: TWO LINEAR FLUORESCENT LAMPS, F54T5 54W - 4400 LUMENS EA
Ballast/Driver: -

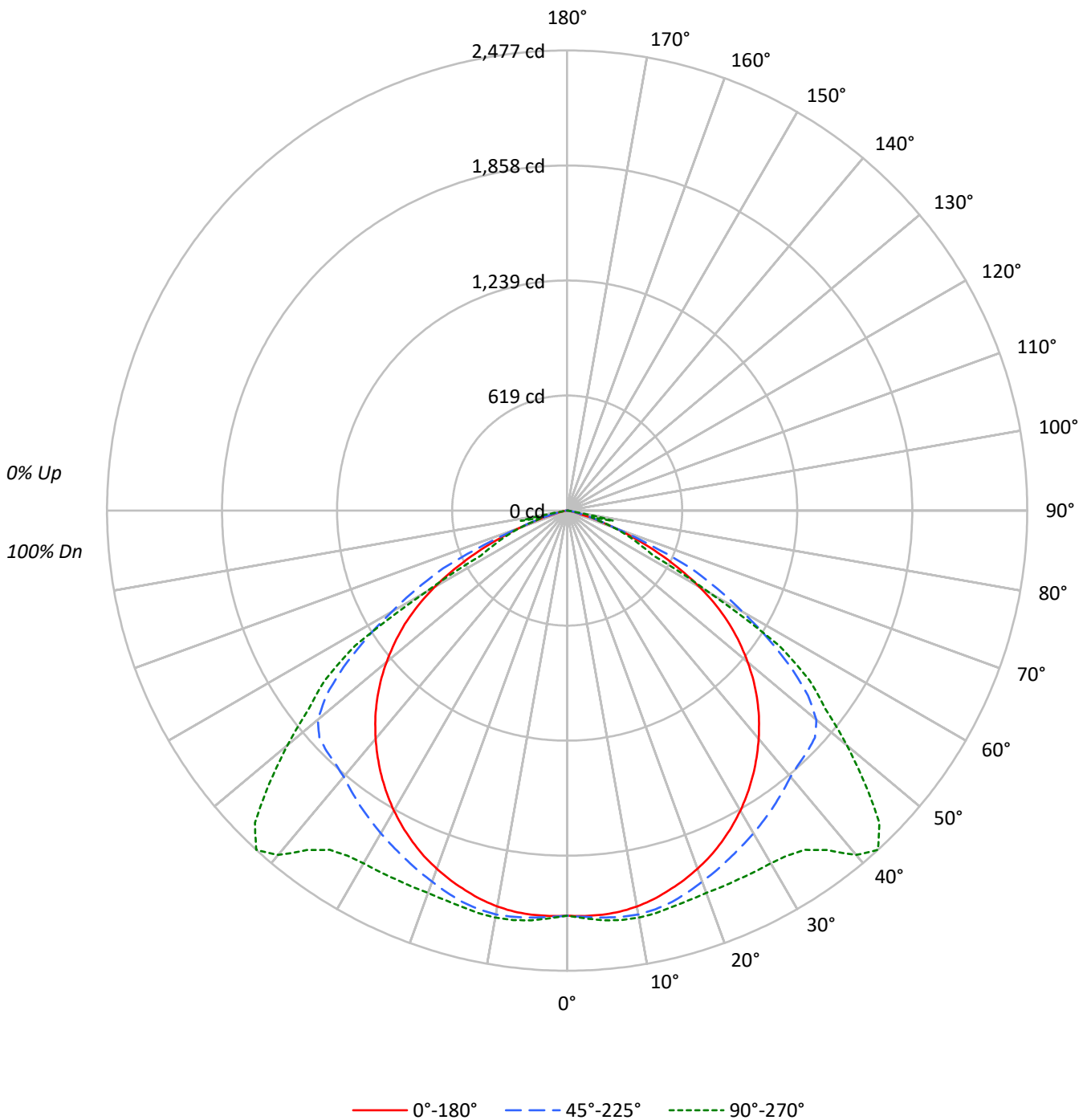
Summary

Lumens per Lamp: 4400 (2 lamps)
Luminaire Lumens: 6418.4 lumens
Efficiency: 72.9%
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.67 / 1.57
Luminous Opening: Rectangular (W 1.67' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 112
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									
RC	80									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	0													
RCR																																					
0	87	87	87	87	85	85	85	85	81	81	81	78	78	78	74	74	74	74	73	73	73	73	73	73													
1	80	77	75	72	79	76	73	71	73	71	69	70	68	67	67	66	65	65	63	63	63	63	63	63													
2	74	68	64	60	72	67	63	59	64	61	58	62	59	57	60	58	55	55	54	54	54	54	54	54													
3	67	60	55	50	66	59	54	50	57	53	49	55	51	48	53	50	47	47	46	46	46	46	46	46													
4	62	54	47	43	60	53	47	43	51	46	42	49	45	41	48	44	41	41	39	39	39	39	39	39													
5	57	48	41	37	55	47	41	37	45	40	36	44	39	36	43	39	35	35	34	34	34	34	34	34													
6	52	43	37	32	51	42	36	32	41	36	32	40	35	31	39	34	31	31	30	30	30	30	30	30													
7	48	39	33	28	47	38	32	28	37	32	28	36	31	28	35	31	27	27	26	26	26	26	26	26													
8	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	24	24	23	23	23	23	23	23													
9	42	32	26	22	41	32	26	22	31	26	22	30	26	22	30	25	22	22	21	21	21	21	21	21													
10	39	30	24	20	38	29	24	20	29	24	20	28	23	20	27	23	20	20	19	19	19	19	19	19													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3756	3756	3756
5°	3776	3802	3828
10°	3784	3860	3891
15°	3773	3889	3933
20°	3761	3896	4014
25°	3740	3926	4160
30°	3709	3989	4359
35°	3665	4081	4686
40°	3606	4206	5441
45°	3529	4460	5789
50°	3400	4691	5265
55°	3204	4411	4783
60°	2838	3761	3048
65°	2213	3003	1752
70°	1365	1365	1324
75°	486	699	912
80°	238	278	228
85°	138	178	158



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	209.8	3.3	2.4	0°	2181	2181	2181	2181	2181	
10°-20°	613.7	9.6	7.0	5°	2184	2189	2199	2204	2214	208
20°-30°	960.0	15.0	10.9	15°	2116	2146	2181	2197	2206	598
30°-40°	1236.6	19.3	14.1	25°	1968	2016	2066	2152	2189	907
40°-50°	1431.8	22.3	16.3	35°	1743	1805	1941	2123	2229	1090
50°-60°	1220.9	19.0	13.9	45°	1449	1540	1831	2251	2377	1115
60°-70°	589.3	9.2	6.7	55°	1067	1212	1469	1515	1593	946
70°-80°	144.9	2.3	1.6	65°	543	666	737	408	430	537
80°-90°	11.5	0.2	0.1	75°	73	110	105	122	137	112
90°-100°	0.0	0.0	0.0	85°	7	8	9	9	8	10
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°	1783.5	27.8	20.3							
0°-40°	3020.1	47.1	34.3							
0°-60°	5672.7	88.4	64.5							
0°-90°	6418.4	100.0	72.9							
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°	6418.4	100.0	72.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2181	2181	2181	2181	2181
2.5°	2184	2185	2189	2189	2197
5°	2184	2189	2199	2204	2214
7.5°	2178	2187	2206	2215	2223
10°	2164	2181	2207	2218	2225
12.5°	2144	2167	2198	2212	2218
15°	2116	2146	2181	2197	2206
17.5°	2087	2120	2155	2185	2197
20°	2052	2090	2126	2170	2190
22.5°	2013	2056	2097	2161	2190
25°	1968	2016	2066	2152	2189
27.5°	1919	1971	2036	2145	2191
30°	1865	1920	2006	2135	2192
32.5°	1806	1864	1974	2125	2202
35°	1743	1805	1941	2123	2229
37.5°	1675	1743	1906	2142	2303
40°	1604	1676	1871	2196	2420
42.5°	1529	1607	1847	2264	2477
45°	1449	1540	1831	2251	2377
47.5°	1363	1468	1809	2118	2174
50°	1269	1393	1751	1923	1965
52.5°	1171	1310	1635	1717	1752
55°	1067	1212	1469	1515	1593
57.5°	952	1094	1281	1357	1352
60°	824	962	1092	1085	885
62.5°	686	818	912	663	523
65°	543	666	737	408	430
67.5°	401	505	482	339	353
70°	271	348	271	263	263
72.5°	166	216	182	192	173
75°	73	110	105	122	137
77.5°	39	42	56	122	256
80°	24	26	28	46	23
82.5°	14	15	16	16	15
85°	7	8	9	9	8
87.5°	3	3	3	3	3
90°	0	0	0	0	0

(END OF REPORT)