

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: ITL48349

Luminaire Tested: **2EP3GAX-3U1-5/8S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48349
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GAX-3U1-5/8S33I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
TWO WHITE PAINTED FORMED METAL BALLAST COVERS, FABRICATED
DIFFUSE METAL PARABOLIC 9-CELL LOUVER.
Light Source: THREE 31-WATT T-8 U-LAMP FLUORESCENTS, SYLVANIA FBO31/41K/1.75,
HORIZONTAL POSITION.
Ballast/Driver: MAGNETEK B332I120RH

Summary

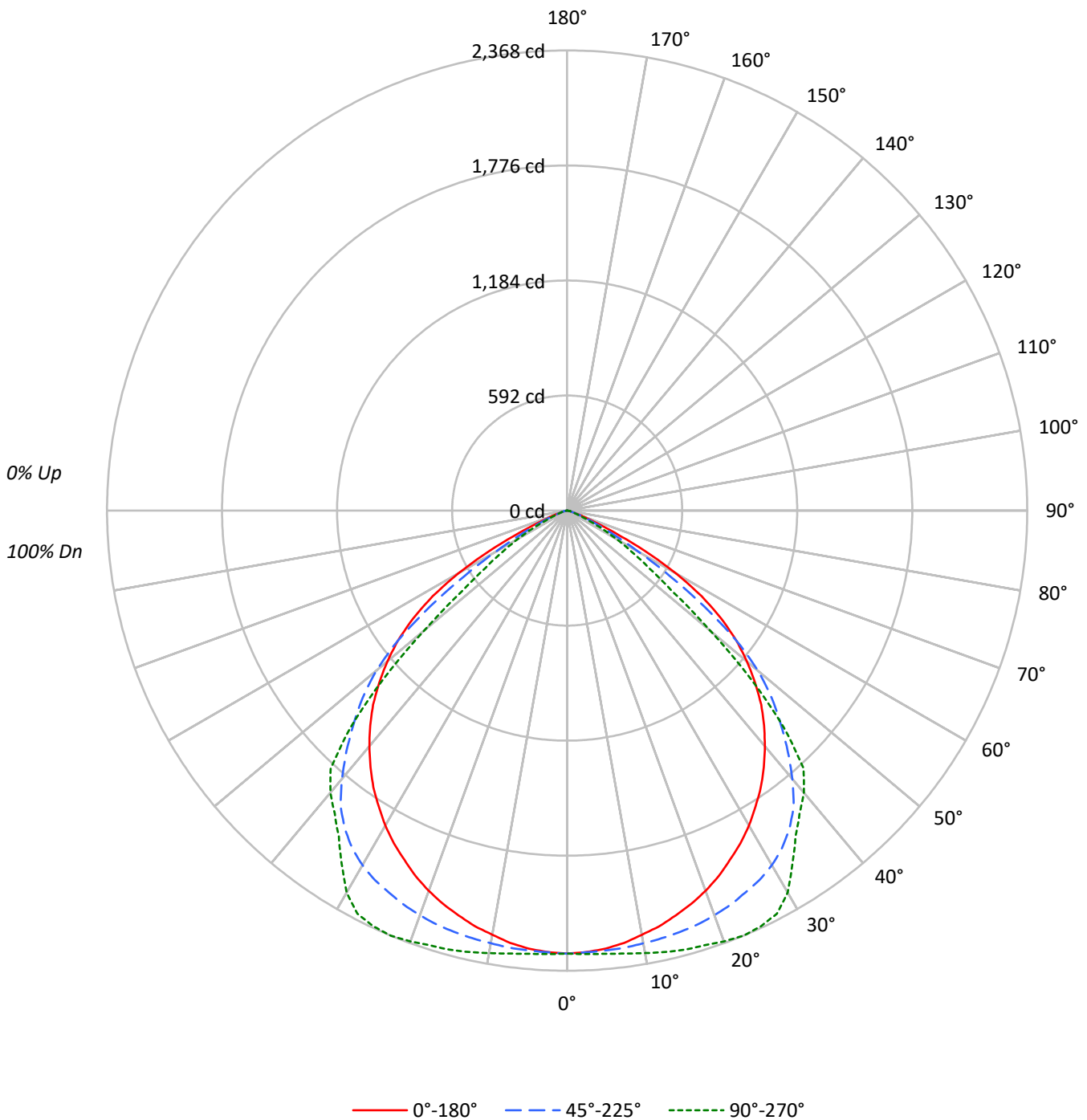
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5201.0 lumens
Efficiency: 61.9%
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.39 / 1.4
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 77.8
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				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	74	74	74	74	72	72	72	72	69	69	69	66	66	66	63	63	63	62
1	69	67	65	63	67	65	64	62	63	61	60	60	59	58	58	57	56	55
2	64	60	57	54	62	59	56	53	57	54	52	55	53	51	53	51	50	48
3	59	54	50	46	58	53	49	46	51	48	45	49	47	44	48	46	44	42
4	55	48	44	40	53	48	43	40	46	42	39	45	42	39	44	41	38	37
5	51	44	39	35	49	43	39	35	42	38	35	41	37	34	40	37	34	33
6	47	40	35	31	46	39	34	31	38	34	31	37	33	31	36	33	30	29
7	44	36	31	28	43	36	31	28	35	31	28	34	30	27	33	30	27	26
8	41	33	28	25	40	33	28	25	32	28	25	31	27	25	31	27	25	23
9	38	30	26	23	37	30	26	23	29	25	22	29	25	22	28	25	22	21
10	36	28	24	21	35	28	23	20	27	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8086	8086	8086
5°	8056	8088	8149
10°	7980	8142	8326
15°	7919	8242	8588
20°	7857	8363	8903
25°	7759	8487	9235
30°	7666	8628	9292
35°	7524	8641	8871
40°	7328	8347	8773
45°	7082	7799	7904
50°	6665	7073	5285
55°	5985	5323	3172
60°	4596	3014	2085
65°	2266	1460	1024
70°	778	591	518
75°	356	329	343
80°	225	225	225
85°	81	81	81



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	216.7	4.2	2.6	0°	2280	2280	2280	2280	2280	
10°-20°	635.6	12.2	7.6	5°	2263	2265	2272	2283	2289	215
20°-30°	1000.8	19.2	11.9	15°	2157	2184	2245	2311	2339	609
30°-40°	1211.1	23.3	14.4	25°	1983	2044	2169	2300	2360	914
40°-50°	1168.8	22.5	13.9	35°	1738	1835	1996	2028	2049	1085
50°-60°	719.1	13.8	8.6	45°	1412	1521	1555	1611	1576	1084
60°-70°	214.6	4.1	2.6	55°	968	1033	861	556	513	850
70°-80°	30.1	0.6	0.4	65°	270	260	174	136	122	300
80°-90°	4.1	0.1	0.0	75°	26	26	24	25	25	34
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	4
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°	1853.1	35.6	22.1							
0°-40°	3064.2	58.9	36.5							
0°-60°	4952.2	95.2	59.0							
0°-90°	5201.0	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°	5201.0	100.0	61.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2280	2280	2280	2280	2280
2.5°	2274	2272	2275	2281	2284
5°	2263	2265	2272	2283	2289
7.5°	2244	2250	2269	2289	2299
10°	2216	2230	2261	2297	2312
12.5°	2191	2209	2254	2306	2327
15°	2157	2184	2245	2311	2339
17.5°	2123	2156	2233	2311	2346
20°	2082	2122	2216	2310	2359
22.5°	2037	2088	2196	2312	2368
25°	1983	2044	2169	2300	2360
27.5°	1930	2000	2144	2277	2338
30°	1872	1951	2107	2233	2269
32.5°	1805	1896	2059	2140	2158
35°	1738	1835	1996	2028	2049
37.5°	1663	1767	1915	1915	1965
40°	1583	1691	1803	1824	1895
42.5°	1500	1614	1681	1738	1801
45°	1412	1521	1555	1611	1576
47.5°	1312	1419	1429	1367	1283
50°	1208	1304	1282	1069	958
52.5°	1095	1178	1098	783	680
55°	968	1033	861	556	513
57.5°	820	853	625	415	391
60°	648	657	425	309	294
62.5°	451	448	275	217	204
65°	270	260	174	136	122
67.5°	140	130	101	80	73
70°	75	69	57	52	50
72.5°	43	40	35	36	35
75°	26	26	24	25	25
77.5°	17	17	16	16	16
80°	11	11	11	11	11
82.5°	4	5	6	6	7
85°	2	2	2	2	2
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)