

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: ITL48347

Luminaire Tested: **2EP3GX-2U6T8S44I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48347
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-2U6T8S44I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
WHITE PAINTED FORMED METAL BALLAST COVER, FABRICATED DIFFUSE
METAL PARABOLIC 16-CELL LOUVER.
Light Source: TWO 31-WATT T-8 U-LAMP FLUORESCENTS, PHILIPS FB31T8/TL741/6,
HORIZONTAL POSITION.
Ballast/Driver: MAGNETEK B332I120RH

Summary

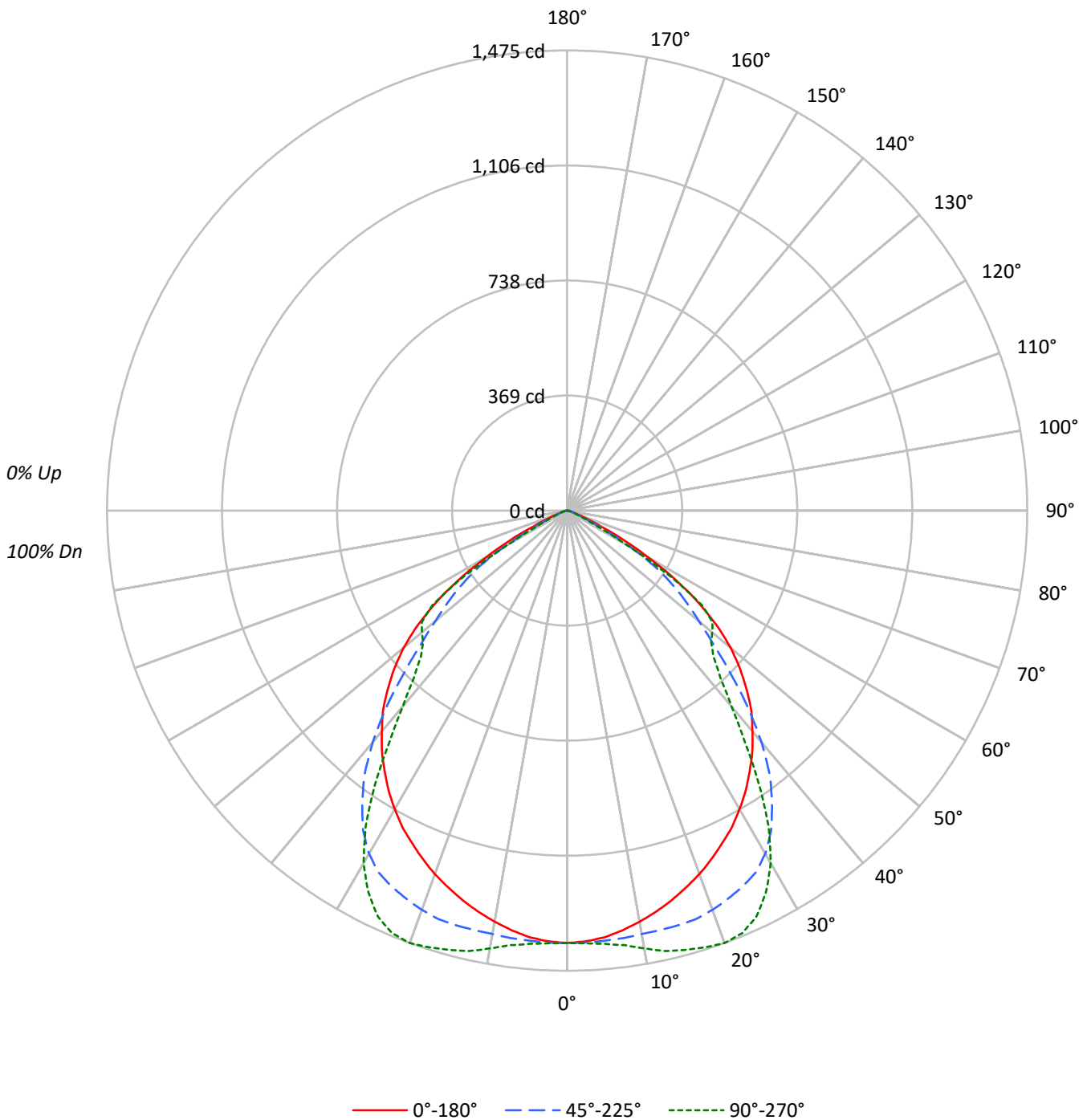
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 2913.9 lumens
Efficiency: 56.0%
Efficacy: 46.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.3 / 1.29
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 62.6
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	67	67	67	67	65	65	65	65	62	62	62	60	60	60	57	57	57	56																																				
1	63	61	59	57	61	59	58	56	57	56	54	55	54	53	53	52	51	50																																				
2	58	55	52	49	57	53	51	48	52	49	47	50	48	46	48	47	45	44																																				
3	54	49	45	42	53	48	45	42	47	44	41	45	43	41	44	42	40	39																																				
4	50	44	40	37	49	44	40	37	42	39	36	41	38	36	40	37	35	34																																				
5	46	40	36	33	45	40	36	32	38	35	32	37	34	32	36	34	32	30																																				
6	43	37	32	29	42	36	32	29	35	31	29	34	31	28	33	30	28	27																																				
7	40	33	29	26	39	33	29	26	32	28	26	31	28	26	31	28	25	24																																				
8	37	31	26	23	37	30	26	23	30	26	23	29	26	23	28	25	23	22																																				
9	35	28	24	21	34	28	24	21	27	24	21	27	23	21	26	23	21	20																																				
10	33	26	22	19	32	26	22	19	25	22	19	25	22	19	24	21	19	18																																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4915	4915	4915
5°	4888	4927	4963
10°	4818	4962	5132
15°	4747	5052	5353
20°	4680	5140	5567
25°	4602	5204	5619
30°	4525	5201	5344
35°	4416	4957	4650
40°	4278	4486	3792
45°	4087	3731	3325
50°	3774	3045	3349
55°	3166	2535	3246
60°	2128	1667	1567
65°	990	596	512
70°	373	280	259
75°	219	178	164
80°	123	102	102
85°	163	163	122



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	132.0	4.5	2.5	0°	1386	1386	1386	1386	1386	
10°-20°	389.0	13.3	7.5	5°	1373	1377	1384	1392	1394	130
20°-30°	604.6	20.7	11.6	15°	1293	1314	1376	1436	1458	365
30°-40°	680.2	23.3	13.1	25°	1176	1230	1330	1404	1436	542
40°-50°	583.9	20.0	11.2	35°	1020	1098	1145	1090	1074	638
50°-60°	404.0	13.9	7.8	45°	815	877	744	646	663	626
60°-70°	101.5	3.5	2.0	55°	512	487	410	460	525	450
70°-80°	16.0	0.5	0.3	65°	118	100	71	67	61	136
80°-90°	2.7	0.1	0.1	75°	16	15	13	13	12	19
90°-100°	0.0	0.0	0.0	85°	4	4	4	3	3	3
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°	1125.6	38.6	21.6							
0°-40°	1805.7	62.0	34.7							
0°-60°	2793.7	95.9	53.7							
0°-90°	2913.9	100.0	56.0							
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°	2913.9	100.0	56.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386	1386	1386	1386	1386
2.5°	1382	1386	1386	1388	1388
5°	1373	1377	1384	1392	1394
7.5°	1357	1366	1382	1399	1405
10°	1338	1351	1378	1412	1425
12.5°	1317	1334	1377	1427	1446
15°	1293	1314	1376	1436	1458
17.5°	1267	1296	1373	1438	1468
20°	1240	1275	1362	1437	1475
22.5°	1209	1254	1347	1431	1466
25°	1176	1230	1330	1404	1436
27.5°	1144	1204	1308	1357	1380
30°	1105	1174	1270	1291	1305
32.5°	1065	1139	1217	1203	1202
35°	1020	1098	1145	1090	1074
37.5°	975	1053	1067	966	937
40°	924	1001	969	836	819
42.5°	875	947	860	735	727
45°	815	877	744	646	663
47.5°	752	798	637	591	626
50°	684	707	552	552	607
52.5°	604	601	480	518	587
55°	512	487	410	460	525
57.5°	412	369	333	366	391
60°	300	254	235	237	221
62.5°	205	166	139	128	109
65°	118	100	71	67	61
67.5°	63	57	41	40	38
70°	36	33	27	27	25
72.5°	24	22	19	19	18
75°	16	15	13	13	12
77.5°	12	11	9	8	8
80°	6	6	5	5	5
82.5°	4	4	3	4	3
85°	4	4	4	3	3
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)