

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: 220p209

Luminaire Tested: **2EP3GX-232S28I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220p209
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S28I
Description: 2X4 EP3GX RECESSED LUMINAIRE WITH 16 CELL SILVER
PARABOLIC LOUVER.
Light Source: TWO LINEAR FLUORESCENT LAMPS, F32T8 32W - 3100 LUMENS EA
Ballast/Driver: -

Summary

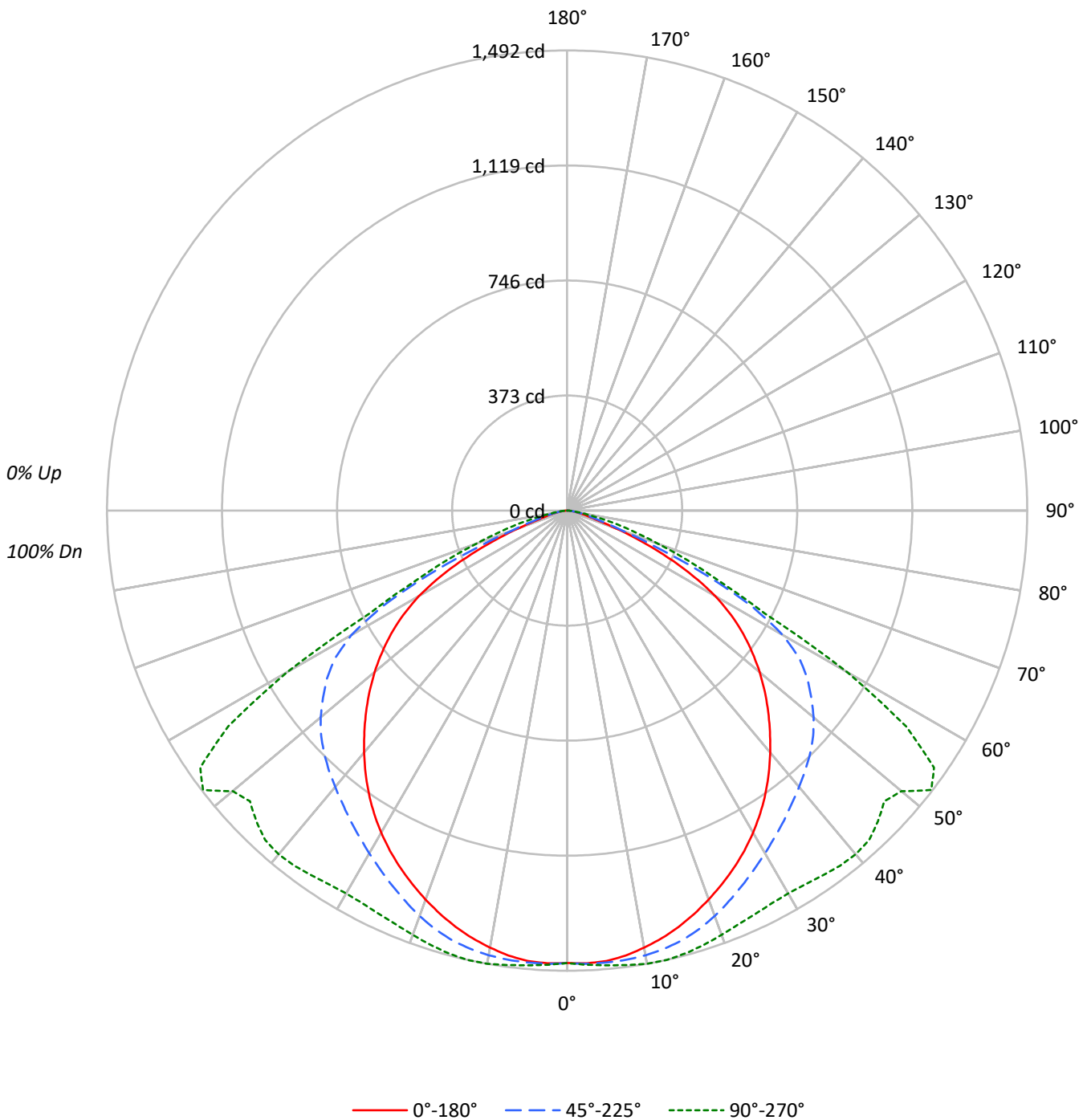
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4320.1 lumens
Efficiency: 69.7%
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.52 / 1.48
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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				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	83	83	83	83	81	81	81	81	77	77	77		74	74	74		71	71	71	70
1	77	74	71	69	75	72	70	67	69	67	65		66	65	63		64	63	62	60
2	70	65	60	57	68	63	59	56	61	58	55		59	56	53		57	54	52	51
3	64	57	52	47	62	56	51	47	54	49	46		52	48	45		50	47	44	43
4	58	50	44	40	57	49	44	40	48	43	39		46	42	39		45	41	38	37
5	54	45	39	34	52	44	38	34	43	38	34		41	37	33		40	36	33	31
6	49	40	34	30	48	40	34	30	38	33	29		37	33	29		36	32	29	27
7	46	36	30	26	45	36	30	26	35	30	26		34	29	26		33	29	25	24
8	42	33	27	23	41	33	27	23	32	27	23		31	26	23		30	26	23	21
9	40	30	25	21	39	30	24	21	29	24	21		28	24	20		28	23	20	19
10	37	28	22	19	36	28	22	19	27	22	19		26	22	18		26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2443	2451	2466
10°	2426	2468	2515
15°	2401	2478	2554
20°	2371	2471	2586
25°	2343	2458	2643
30°	2312	2459	2747
35°	2272	2484	2926
40°	2219	2535	3153
45°	2164	2615	3345
50°	2105	2694	3654
55°	2017	2752	4202
60°	1843	2683	3486
65°	1422	1976	2156
70°	801	922	1514
75°	436	513	1001
80°	306	344	507
85°	210	248	305



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.2	3.2	2.3	0°	1467	1467	1467	1467	1467	
10°-20°	406.6	9.4	6.6	5°	1466	1467	1471	1474	1480	139
20°-30°	624.5	14.5	10.1	15°	1397	1408	1442	1472	1486	394
30°-40°	786.1	18.2	12.7	25°	1279	1304	1342	1403	1443	589
40°-50°	878.6	20.3	14.2	35°	1121	1155	1226	1352	1444	701
50°-60°	876.8	20.3	14.1	45°	922	970	1114	1298	1425	711
60°-70°	478.5	11.1	7.7	55°	697	776	951	1229	1452	619
70°-80°	112.0	2.6	1.8	65°	362	440	503	481	549	356
80°-90°	16.8	0.4	0.3	75°	68	73	80	115	156	82
90°-100°	0.0	0.0	0.0	85°	11	12	13	14	16	14
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°	1171.3	27.1	18.9							
0°-40°	1957.4	45.3	31.6							
0°-60°	3712.8	85.9	59.9							
0°-90°	4320.1	100.0	69.7							
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°	4320.1	100.0	69.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1467	1467	1467	1467	1467
2.5°	1469	1470	1471	1470	1474
5°	1466	1467	1471	1474	1480
7.5°	1455	1458	1469	1479	1486
10°	1439	1444	1464	1482	1492
12.5°	1420	1428	1455	1480	1492
15°	1397	1408	1442	1472	1486
17.5°	1371	1386	1423	1456	1476
20°	1342	1361	1399	1440	1464
22.5°	1311	1333	1371	1421	1452
25°	1279	1304	1342	1403	1443
27.5°	1244	1271	1312	1387	1436
30°	1206	1236	1283	1372	1433
32.5°	1165	1196	1254	1359	1437
35°	1121	1155	1226	1352	1444
37.5°	1074	1110	1197	1346	1452
40°	1024	1065	1170	1338	1455
42.5°	973	1017	1143	1323	1449
45°	922	970	1114	1298	1425
47.5°	869	923	1082	1260	1395
50°	815	876	1043	1226	1415
52.5°	757	827	998	1235	1488
55°	697	776	951	1229	1452
57.5°	631	719	893	1143	1303
60°	555	650	808	959	1050
62.5°	463	557	680	696	722
65°	362	440	503	481	549
67.5°	261	307	322	352	425
70°	165	189	190	253	312
72.5°	99	111	119	175	225
75°	68	73	80	115	156
77.5°	47	50	54	70	92
80°	32	34	36	43	53
82.5°	20	22	23	26	30
85°	11	12	13	14	16
87.5°	4	5	5	6	6
90°	0	0	0	0	0

(END OF REPORT)