

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: 220P184

Luminaire Tested: **2EP3GX-232S38I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P184
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S38I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 24 Cell
Semi-Specular Parabolic Louver.
Light Source: TWO - FO32./35K - 2800 LUMENS EA. - 32 WATTS EA.
Ballast/Driver: SYLVANIA QT2X32T8/120 ISN-SC

Summary

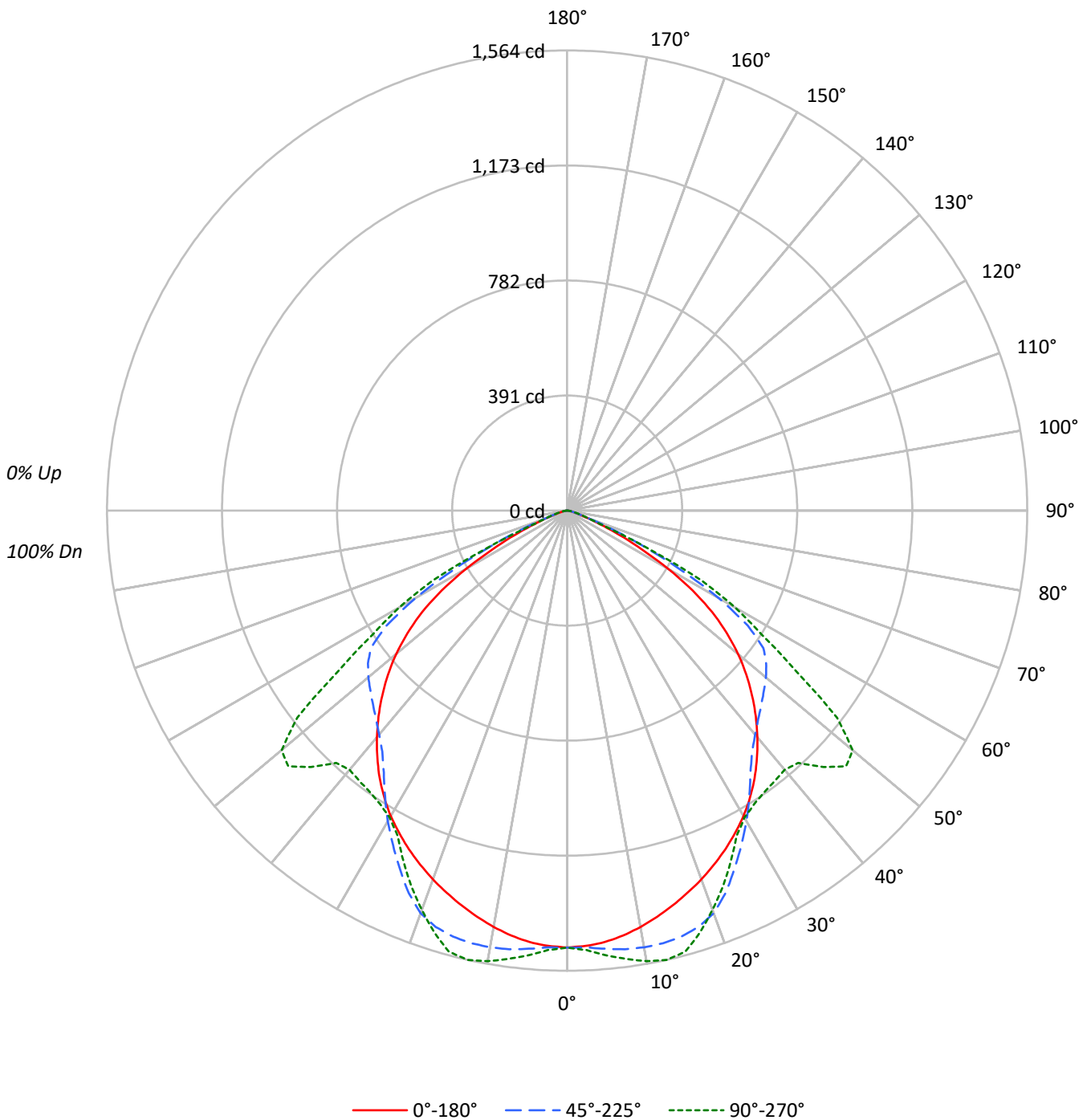
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3644.5 lumens
Efficiency: 65.1%
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.33
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61
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	77	77	77	77	76	76	76	76	72	72	72		69	69	69		66	66	66	65
1	72	70	67	65	70	68	66	64	65	64	62		63	62	60		61	60	59	57
2	66	62	58	55	65	61	57	54	58	55	53		56	54	52		54	52	51	49
3	61	55	50	47	60	54	50	46	52	48	45		50	47	45		49	46	44	42
4	56	49	44	40	55	48	43	40	47	42	39		45	42	39		44	41	38	37
5	52	44	39	35	50	43	38	34	42	38	34		41	37	34		40	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	30		36	32	29	28
7	44	36	31	27	43	36	30	27	35	30	27		34	30	26		33	29	26	25
8	41	33	28	24	40	33	27	24	32	27	24		31	27	24		30	26	24	22
9	39	30	25	22	38	30	25	22	29	25	22		28	24	21		28	24	21	20
10	36	28	23	20	35	28	23	20	27	23	20		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2465	2465	2465
5°	2453	2491	2528
10°	2422	2540	2621
15°	2387	2576	2667
20°	2357	2572	2551
25°	2328	2463	2410
30°	2298	2337	2310
35°	2251	2201	2367
40°	2180	2154	2492
45°	2087	2190	2892
50°	1960	2278	3272
55°	1742	2356	2741
60°	1318	1975	2188
65°	770	1108	1174
70°	330	393	369
75°	167	186	218
80°	105	115	134
85°	76	76	95



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.8	3.9	2.6	0°	1485	1485	1485	1485	1485	
10°-20°	417.2	11.4	7.5	5°	1472	1479	1495	1507	1517	139
20°-30°	609.3	16.7	10.9	15°	1389	1434	1499	1539	1552	392
30°-40°	707.4	19.4	12.6	25°	1271	1343	1345	1316	1316	586
40°-50°	766.4	21.0	13.7	35°	1111	1169	1086	1116	1168	693
50°-60°	682.4	18.7	12.2	45°	889	884	933	1075	1232	684
60°-70°	276.9	7.6	4.9	55°	602	604	814	932	947	528
70°-80°	36.6	1.0	0.7	65°	196	232	282	309	299	205
80°-90°	5.4	0.1	0.1	75°	26	27	29	32	34	33
90°-100°	0.0	0.0	0.0	85°	4	4	4	4	5	5
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°	1169.3	32.1	20.9							
0°-40°	1876.8	51.5	33.5							
0°-60°	3325.6	91.2	59.4							
0°-90°	3644.5	100.0	65.1							
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°	3644.5	100.0	65.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485	1485	1485	1485	1485
2.5°	1481	1481	1486	1488	1495
5°	1472	1479	1495	1507	1517
7.5°	1457	1473	1504	1525	1537
10°	1437	1463	1507	1540	1555
12.5°	1414	1450	1506	1547	1564
15°	1389	1434	1499	1539	1552
17.5°	1362	1415	1484	1503	1503
20°	1334	1395	1456	1443	1444
22.5°	1303	1371	1407	1381	1383
25°	1271	1343	1345	1316	1316
27.5°	1236	1311	1282	1245	1247
30°	1199	1273	1219	1181	1205
32.5°	1157	1227	1152	1142	1183
35°	1111	1169	1086	1116	1168
37.5°	1060	1103	1032	1097	1159
40°	1006	1031	994	1081	1150
42.5°	949	957	961	1068	1163
45°	889	884	933	1075	1232
47.5°	826	811	907	1115	1286
50°	759	740	882	1123	1267
52.5°	684	671	853	1065	1156
55°	602	604	814	932	947
57.5°	506	528	728	742	783
60°	397	438	595	594	659
62.5°	286	333	433	458	516
65°	196	232	282	309	299
67.5°	120	148	164	149	129
70°	68	82	81	74	76
72.5°	41	44	44	48	50
75°	26	27	29	32	34
77.5°	18	18	19	21	22
80°	11	11	12	14	14
82.5°	7	7	8	8	8
85°	4	4	4	4	5
87.5°	2	2	2	2	2
90°	0	0	0	0	0

(END OF REPORT)