

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: 220P185

Luminaire Tested: **2EP3GX-232S26MI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P185
Test Lab: METALUX RESEARCH LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S26MI
Description: 2 X 4 RECESSED CONVERTIBLE BODY LUMINAIRE WITH A 12 CELL
SPECULAR PARABOLIC LOUVER.
Light Source: TWO - FO32/35K - 2800 LUMENS EA. - 32 WATTS EA.
Ballast/Driver: UNIVERSAL B232I120RH-A

Summary

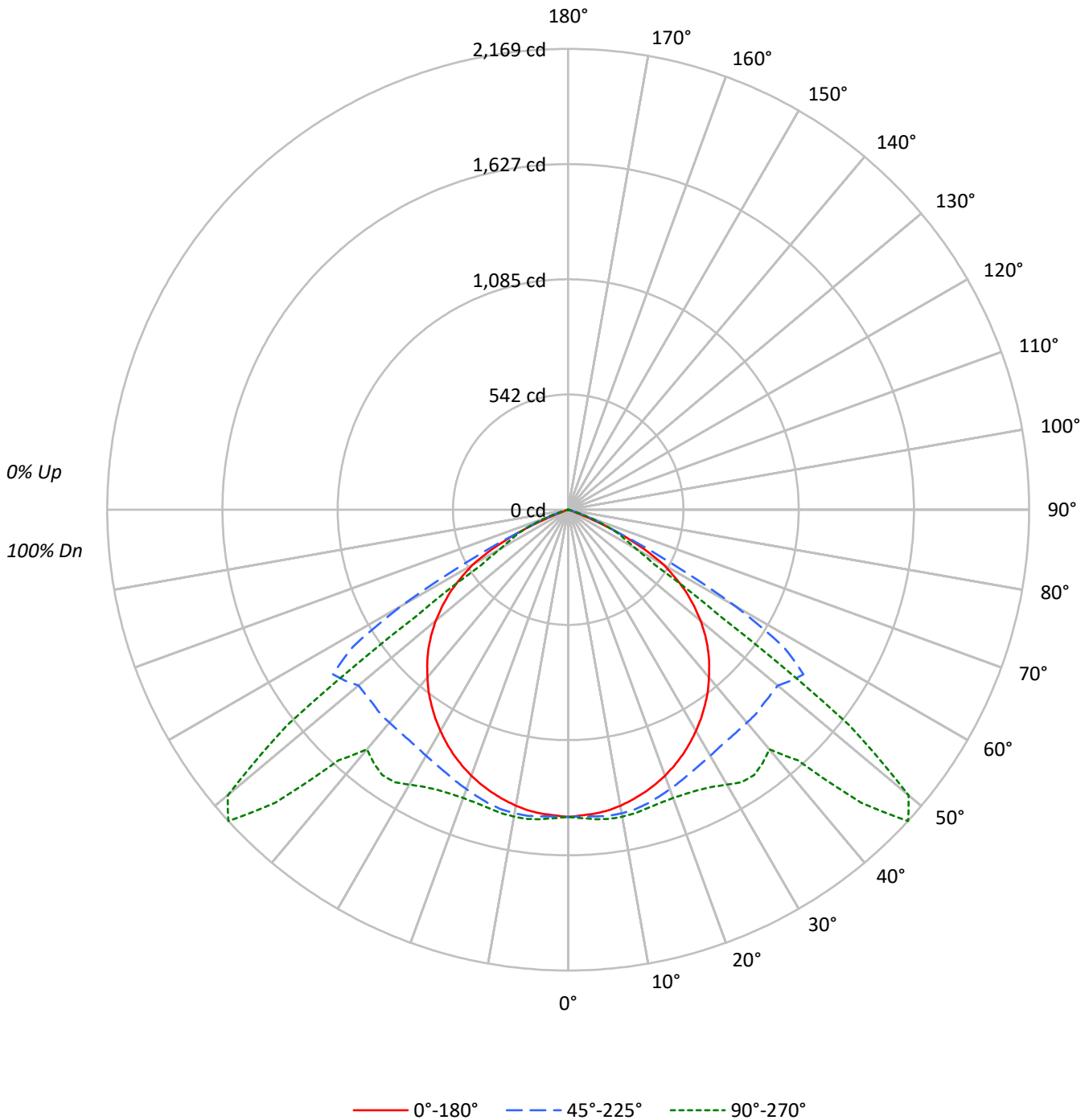
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4329.0 lumens
Efficiency: 77.3%
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.58 / 1.69
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

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									
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	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77	77	77	77	77	77	77													
1	86	83	80	77	84	81	78	76	78	76	74	75	73	71	72	71	69	68	68	68	68	68	68	68													
2	79	73	68	65	77	72	67	64	69	65	62	66	63	61	64	62	60	58	58	58	58	58	58	58													
3	72	65	59	54	70	63	58	54	61	57	53	59	55	52	57	54	51	49	49	49	49	49	49	49													
4	66	57	51	46	64	56	50	46	54	49	45	53	48	45	51	47	44	42	42	42	42	42	42	42													
5	61	51	44	40	59	50	44	39	49	43	39	47	42	39	46	41	38	37	37	37	37	37	37	37													
6	56	46	39	34	54	45	39	34	44	38	34	42	37	34	41	37	33	32	32	32	32	32	32	32													
7	51	41	35	30	50	41	34	30	40	34	30	38	33	30	37	33	29	28	28	28	28	28	28	28													
8	48	37	31	27	47	37	31	27	36	30	26	35	30	26	34	29	26	25	25	25	25	25	25	25													
9	44	34	28	24	43	34	28	24	33	27	24	32	27	23	31	27	23	22	22	22	22	22	22	22													
10	42	31	25	21	41	31	25	21	30	25	21	30	25	21	29	24	21	20	20	20	20	20	20	20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2400	2400	2400
5°	2393	2414	2436
10°	2385	2446	2473
15°	2370	2463	2497
20°	2353	2473	2551
25°	2332	2500	2665
30°	2304	2563	2864
35°	2274	2669	3090
40°	2232	2834	3190
45°	2183	3042	4578
50°	2100	3324	5400
55°	1965	3910	2506
60°	1730	3011	1218
65°	1072	1096	978
70°	102	466	476
75°	38	51	58
80°	29	29	29
85°	38	38	19



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	138.3	3.2	2.5	0°	1446	1446	1446	1446	1446	
10°-20°	403.2	9.3	7.2	5°	1436	1442	1449	1456	1462	136
20°-30°	633.9	14.6	11.3	15°	1379	1407	1433	1449	1453	389
30°-40°	829.5	19.2	14.8	25°	1273	1320	1365	1431	1455	586
40°-50°	1046.2	24.2	18.7	35°	1122	1187	1317	1480	1525	702
50°-60°	937.5	21.7	16.7	45°	930	1037	1296	1595	1950	716
60°-70°	316.7	7.3	5.7	55°	679	895	1351	1279	866	601
70°-80°	21.8	0.5	0.4	65°	273	423	279	231	249	262
80°-90°	1.8	0.0	0.0	75°	6	6	8	11	9	8
90°-100°	0.0	0.0	0.0	85°	2	2	2	1	1	2
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°	1175.4	27.2	21.0							
0°-40°	2004.9	46.3	35.8							
0°-60°	3988.7	92.1	71.2							
0°-90°	4329.0	100.0	77.3							
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°	4329.0	100.0	77.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446	1446	1446	1446	1446
2.5°	1440	1443	1445	1448	1453
5°	1436	1442	1449	1456	1462
7.5°	1428	1438	1453	1463	1468
10°	1415	1431	1451	1464	1467
12.5°	1398	1421	1445	1458	1462
15°	1379	1407	1433	1449	1453
17.5°	1357	1391	1417	1440	1446
20°	1332	1371	1400	1433	1444
22.5°	1304	1347	1383	1431	1447
25°	1273	1320	1365	1431	1455
27.5°	1239	1290	1350	1436	1470
30°	1202	1257	1337	1448	1494
32.5°	1164	1223	1325	1465	1520
35°	1122	1187	1317	1480	1525
37.5°	1079	1151	1312	1473	1503
40°	1030	1114	1308	1453	1472
42.5°	982	1074	1306	1452	1600
45°	930	1037	1296	1595	1950
47.5°	874	1001	1291	1872	2169
50°	813	966	1287	1962	2091
52.5°	747	930	1322	1761	1668
55°	679	895	1351	1279	866
57.5°	598	850	1203	647	483
60°	521	775	907	394	367
62.5°	405	643	549	299	301
65°	273	423	279	231	249
67.5°	122	221	168	168	174
70°	21	57	96	104	98
72.5°	8	10	42	47	34
75°	6	6	8	11	9
77.5°	5	5	4	4	4
80°	3	3	3	3	3
82.5°	2	3	3	2	2
85°	2	2	2	1	1
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)