

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: 104P234

Luminaire Tested: **E-2P2GX-232S26I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 104P234
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: E-2P2GX-232S26I
Description: 2 X 4 RECESSED LUMINAIRE WITH 2" DEEP, 12 CELL
SEMI-SPECULAR PARABOLIC LOUVER
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic L.O.B.F. = 88.22%

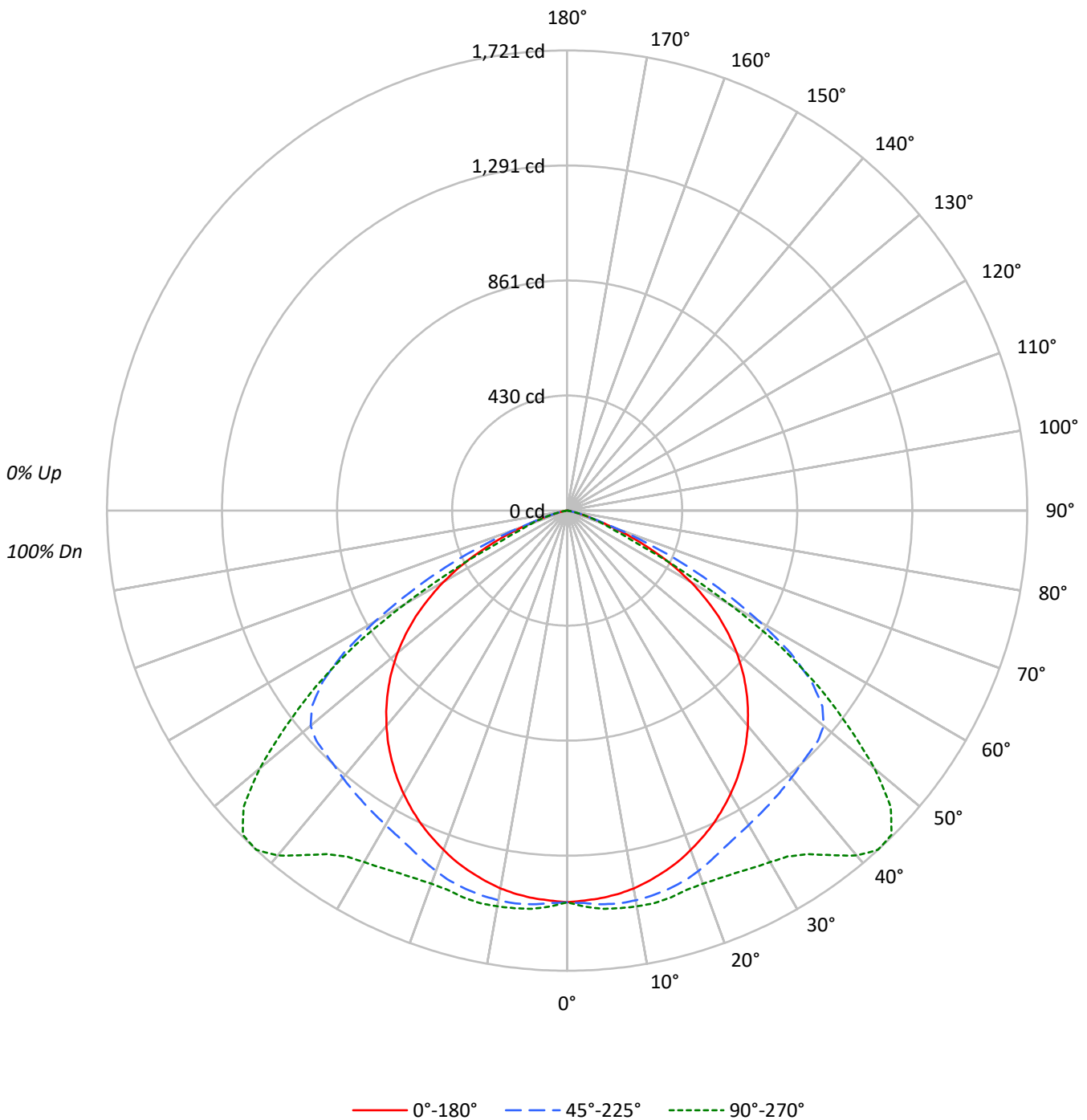
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4432.3 lumens
Efficiency: 79.1%
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.73 / 1.62
Luminous Opening: Rectangular (W 1.74' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.1
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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																			
1	87	84	81	79	85	82	80	77	79	77	75	76	74	73	73	72	70	69																			
2	80	74	69	65	78	73	68	64	70	66	63	67	64	61	65	62	60	59																			
3	73	65	59	55	71	64	59	54	62	57	53	60	56	52	58	54	51	50																			
4	67	58	51	46	65	57	51	46	55	50	45	53	49	45	51	47	44	43																			
5	61	52	45	40	60	51	44	40	49	43	39	48	43	39	46	42	38	37																			
6	57	46	39	35	55	46	39	34	44	38	34	43	38	34	42	37	33	32																			
7	52	42	35	30	51	41	35	30	40	34	30	39	34	30	38	33	30	28																			
8	49	38	31	27	47	37	31	27	36	31	27	35	30	26	35	30	26	25																			
9	45	35	28	24	44	34	28	24	33	28	24	33	27	24	32	27	24	22																			
10	42	32	26	22	41	32	26	22	31	25	21	30	25	21	29	25	21	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2411	2411	2411
5°	2403	2441	2469
10°	2398	2473	2511
15°	2383	2496	2552
20°	2366	2513	2600
25°	2348	2525	2714
30°	2324	2580	2884
35°	2296	2674	3150
40°	2258	2803	3617
45°	2204	2981	3991
50°	2120	3205	3842
55°	1982	3202	3293
60°	1757	2728	2310
65°	1378	1958	1090
70°	837	948	683
75°	305	362	388
80°	161	123	95
85°	94	94	76



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	140.8	3.2	2.5	0°	1465	1465	1465	1465	1465	
10°-20°	411.9	9.3	7.4	5°	1455	1463	1478	1487	1495	138
20°-30°	646.3	14.6	11.5	15°	1399	1432	1465	1488	1498	395
30°-40°	846.9	19.1	15.1	25°	1293	1344	1391	1461	1495	596
40°-50°	1002.3	22.6	17.9	35°	1143	1214	1331	1482	1568	715
50°-60°	880.3	19.9	15.7	45°	947	1043	1281	1588	1715	729
60°-70°	420.5	9.5	7.5	55°	691	829	1116	1130	1148	614
70°-80°	77.4	1.7	1.4	65°	354	488	503	336	280	348
80°-90°	5.9	0.1	0.1	75°	48	65	57	59	61	72
90°-100°	0.0	0.0	0.0	85°	5	5	5	4	4	7
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1199.1	27.1	21.4	165°	0	0	0	0	0	0
0°-40°	2046.0	46.2	36.5	175°	0	0	0	0	0	0
0°-60°	3928.6	88.6	70.2	180°	0	0	0	0	0	0
0°-90°	4432.3	100.0	79.1							
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°	4432.3	100.0	79.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1465	1465	1465	1465	1465
2.5°	1460	1462	1469	1474	1482
5°	1455	1463	1478	1487	1495
7.5°	1447	1462	1482	1492	1500
10°	1435	1457	1480	1494	1503
12.5°	1418	1447	1474	1493	1504
15°	1399	1432	1465	1488	1498
17.5°	1377	1415	1453	1475	1487
20°	1351	1394	1435	1465	1485
22.5°	1323	1370	1413	1460	1488
25°	1293	1344	1391	1461	1495
27.5°	1259	1316	1373	1463	1506
30°	1223	1285	1358	1467	1518
32.5°	1185	1252	1344	1473	1534
35°	1143	1214	1331	1482	1568
37.5°	1099	1172	1318	1506	1624
40°	1051	1129	1305	1545	1684
42.5°	1001	1087	1291	1579	1721
45°	947	1043	1281	1588	1715
47.5°	890	997	1273	1554	1642
50°	828	947	1252	1458	1501
52.5°	762	892	1203	1307	1325
55°	691	829	1116	1130	1148
57.5°	614	759	989	952	945
60°	534	681	829	756	702
62.5°	446	592	665	534	471
65°	354	488	503	336	280
67.5°	259	366	341	200	188
70°	174	239	197	141	142
72.5°	104	140	100	96	99
75°	48	65	57	59	61
77.5°	27	26	29	30	28
80°	17	16	13	12	10
82.5°	10	9	8	7	7
85°	5	5	5	4	4
87.5°	2	2	2	2	2
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)