

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: 218P107

Luminaire Tested: **EP3GX-232S26I**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 218P107  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: EP3GX-232S26I  
Description: 1 X 4 Recessed Convertible Body Luminaire with a 12 cell semi-specular low iridescent economy parabolic louver.  
Light Source: Two - FO32/735 - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

**Summary**

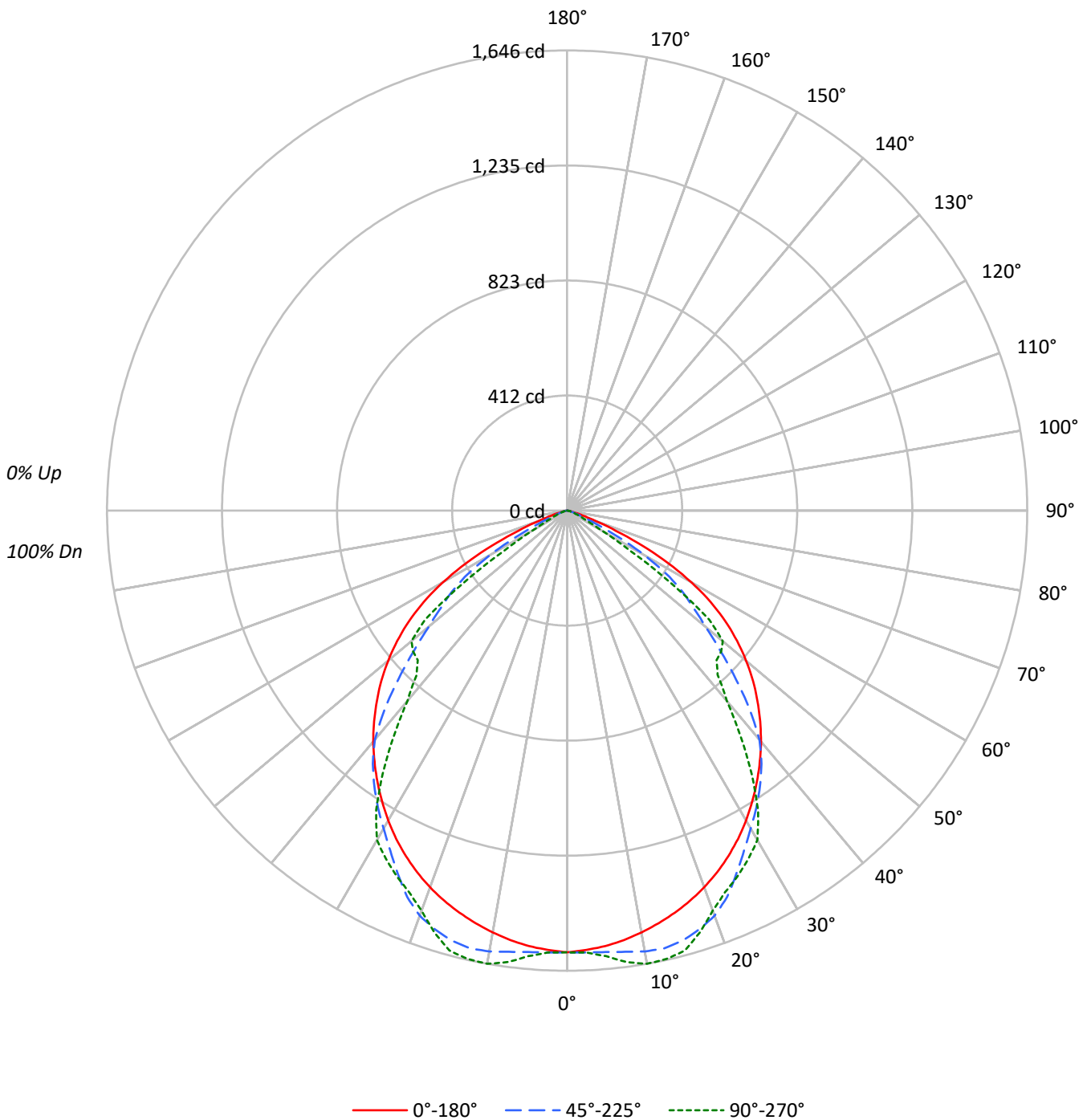
Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3325.5 lumens  
Efficiency: 59.4%  
Efficacy: 58.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.28  
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')  
CIE Type: Direct

Input Watts (W): 56.8  
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	71	71	71	71	69	69	69	69	66	66	66		63	63	63		61	61	61	59
1	66	64	62	60	65	63	61	59	60	59	57		58	57	56		56	55	54	53
2	61	57	54	52	60	56	53	51	54	52	50		53	50	49		51	49	48	46
3	57	52	48	44	55	51	47	44	49	46	43		47	45	43		46	44	42	41
4	53	47	42	39	51	46	42	38	44	41	38		43	40	37		42	39	37	36
5	49	42	37	34	48	41	37	34	40	36	34		39	36	33		38	35	33	32
6	45	38	34	30	44	38	33	30	37	33	30		36	32	30		35	32	29	28
7	42	35	30	27	41	35	30	27	34	30	27		33	29	27		32	29	26	25
8	39	32	27	24	39	32	27	24	31	27	24		30	27	24		30	26	24	23
9	37	30	25	22	36	29	25	22	29	25	22		28	24	22		27	24	22	21
10	35	27	23	20	34	27	23	20	27	23	20		26	22	20		26	22	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6219	6219	6219
5°	6180	6263	6322
10°	6123	6399	6579
15°	6068	6492	6638
20°	6007	6459	6380
25°	5924	6224	6267
30°	5818	5968	6186
35°	5690	5781	5531
40°	5544	5498	4568
45°	5361	4760	4209
50°	5120	3950	4452
55°	4749	3438	3143
60°	4039	2519	1134
65°	2776	1099	512
70°	1231	437	322
75°	471	274	213
80°	249	181	159
85°	135	90	90



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.7	4.6	2.7	0°	1580	1580	1580	1580	1580	
10°-20°	442.9	13.3	7.9	5°	1564	1571	1585	1599	1600	148
20°-30°	656.0	19.7	11.7	15°	1489	1528	1593	1623	1629	420
30°-40°	744.3	22.4	13.3	25°	1364	1433	1433	1425	1443	628
40°-50°	663.4	19.9	11.8	35°	1184	1247	1203	1180	1151	740
50°-60°	482.1	14.5	8.6	45°	963	960	855	731	756	742
60°-70°	157.2	4.7	2.8	55°	692	639	501	506	458	612
70°-80°	24.5	0.7	0.4	65°	298	219	118	65	55	296
80°-90°	3.4	0.1	0.1	75°	31	23	18	16	14	43
90°-100°	0.0	0.0	0.0	85°	3	3	2	2	2	4
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°	1250.6	37.6	22.3	165°	0	0	0	0	0	0
0°-40°	1994.9	60.0	35.6	175°	0	0	0	0	0	0
0°-60°	3140.4	94.4	56.1	180°	0	0	0	0	0	0
0°-90°	3325.5	100.0	59.4							
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°	3325.5	100.0	59.4							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1580	1580	1580	1580	1580
2.5°	1573	1577	1582	1586	1582
5°	1564	1571	1585	1599	1600
7.5°	1550	1562	1592	1622	1629
10°	1532	1552	1601	1640	1646
12.5°	1512	1540	1604	1637	1643
15°	1489	1528	1593	1623	1629
17.5°	1463	1512	1571	1589	1581
20°	1434	1493	1542	1529	1523
22.5°	1401	1468	1496	1470	1477
25°	1364	1433	1433	1425	1443
27.5°	1324	1396	1371	1382	1404
30°	1280	1351	1313	1335	1361
32.5°	1233	1301	1260	1280	1271
35°	1184	1247	1203	1180	1151
37.5°	1132	1181	1142	1058	1020
40°	1079	1109	1070	930	889
42.5°	1022	1035	968	812	797
45°	963	960	855	731	756
47.5°	902	886	745	690	747
50°	836	809	645	662	727
52.5°	766	727	567	610	640
55°	692	639	501	506	458
57.5°	609	543	420	341	270
60°	513	435	320	197	144
62.5°	408	325	215	107	83
65°	298	219	118	65	55
67.5°	189	128	63	44	39
70°	107	66	38	31	28
72.5°	57	36	26	22	20
75°	31	23	18	16	14
77.5°	18	15	12	11	10
80°	11	10	8	7	7
82.5°	6	6	5	4	4
85°	3	3	2	2	2
87.5°	1	1	1	1	1
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)