

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: 218P112

Luminaire Tested: **EP3GAX-232S26I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P112
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GAX-232S26I
Description: 1 X 4 Recessed Convertible Body Luminaire with a 12 cell semi-specular low iridescent 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

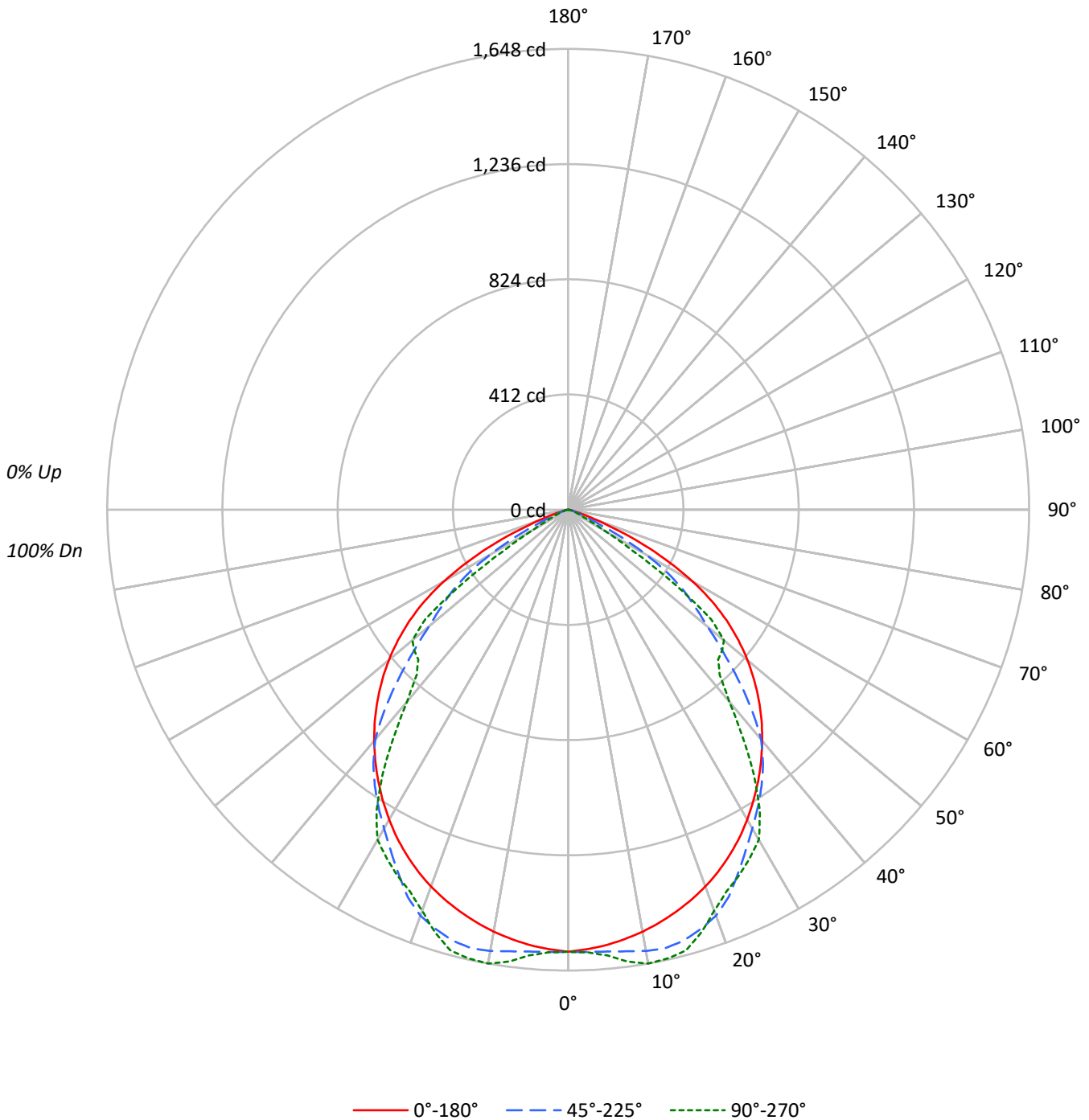
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3335.4 lumens
Efficiency: 59.6%
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.28
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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	60
1	66	64	62	60	65	63	61	60	60	59	58	58	57	56	56	55	54	53
2	62	58	54	52	60	57	54	51	55	52	50	53	51	49	51	49	48	47
3	57	52	48	45	56	51	47	44	49	46	43	48	45	43	46	44	42	41
4	53	47	42	39	51	46	42	39	44	41	38	43	40	38	42	39	37	36
5	49	42	38	34	48	42	37	34	40	37	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	28	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°	6136	6136	6136
5°	6089	6179	6233
10°	6037	6313	6495
15°	5983	6409	6553
20°	5923	6381	6302
25°	5841	6149	6183
30°	5736	5897	6108
35°	5610	5709	5482
40°	5467	5436	4534
45°	5291	4720	4160
50°	5054	3918	4389
55°	4682	3410	3160
60°	3997	2515	1157
65°	2755	1111	505
70°	1226	443	318
75°	465	270	225
80°	246	179	156
85°	134	89	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	151.7	4.5	2.7	0°	1581	1581	1581	1581	1581	
10°-20°	443.3	13.3	7.9	5°	1563	1571	1586	1599	1600	148
20°-30°	656.8	19.7	11.7	15°	1489	1528	1595	1625	1631	420
30°-40°	746.1	22.4	13.3	25°	1364	1436	1436	1426	1444	628
40°-50°	665.5	20.0	11.9	35°	1184	1248	1205	1185	1157	740
50°-60°	484.9	14.5	8.7	45°	964	962	860	734	758	742
60°-70°	159.1	4.8	2.8	55°	692	641	504	509	467	613
70°-80°	24.7	0.7	0.4	65°	300	222	121	66	55	297
80°-90°	3.4	0.1	0.1	75°	31	23	18	16	15	44
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°	1251.8	37.5	22.4	165°	0	0	0	0	0	0
0°-40°	1997.9	59.9	35.7	175°	0	0	0	0	0	0
0°-60°	3148.2	94.4	56.2	180°	0	0	0	0	0	0
0°-90°	3335.4	100.0	59.6							
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°	3335.4	100.0	59.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1581	1581	1581	1581	1581
2.5°	1573	1577	1583	1587	1584
5°	1563	1571	1586	1599	1600
7.5°	1549	1562	1593	1622	1630
10°	1532	1552	1602	1641	1648
12.5°	1512	1540	1606	1639	1644
15°	1489	1528	1595	1625	1631
17.5°	1463	1513	1573	1592	1584
20°	1434	1493	1545	1532	1526
22.5°	1401	1469	1499	1472	1478
25°	1364	1436	1436	1426	1444
27.5°	1324	1397	1374	1383	1405
30°	1280	1352	1316	1337	1363
32.5°	1233	1303	1262	1283	1275
35°	1184	1248	1205	1185	1157
37.5°	1133	1183	1144	1065	1024
40°	1079	1111	1073	937	895
42.5°	1023	1037	972	817	801
45°	964	962	860	734	758
47.5°	902	888	749	691	746
50°	837	812	649	662	727
52.5°	767	729	571	612	643
55°	692	641	504	509	467
57.5°	609	545	423	348	277
60°	515	438	324	203	149
62.5°	408	328	218	110	85
65°	300	222	121	66	55
67.5°	190	130	64	44	39
70°	108	66	39	31	28
72.5°	58	37	26	23	20
75°	31	23	18	16	15
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)