

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: 218P108

Luminaire Tested: **EP3GX-232S28I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232S28I
Description: 1 X 4 Recessed Convertible Body Luminaire with a 16 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

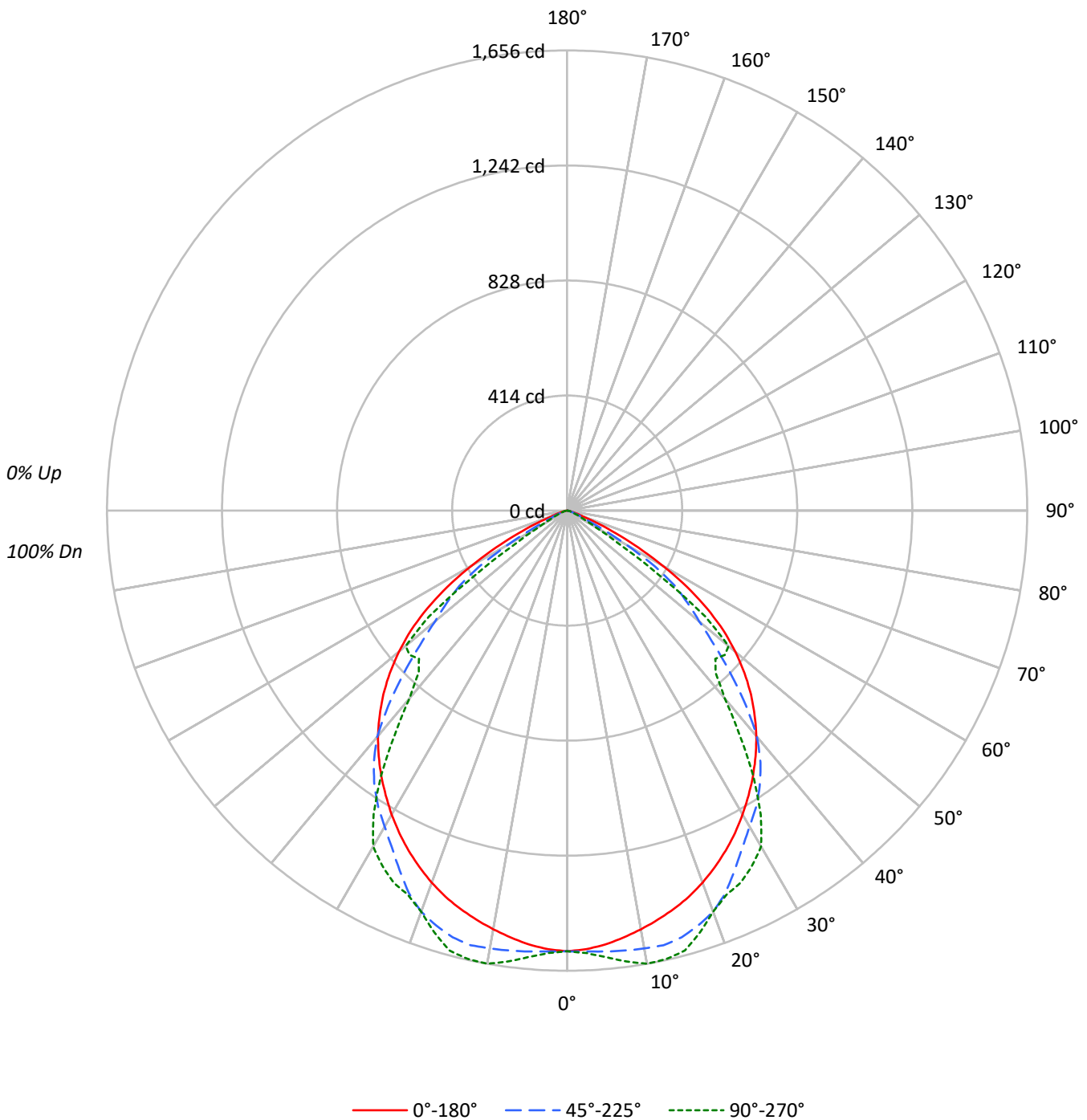
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3215.1 lumens
Efficiency: 57.4%
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.27
Luminous Opening: Rectangular (W 0.74' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 56.7
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	68	68	68	68	67	67	67	67	64	64	64	61	61	61	59	59	59	57
1	64	62	60	59	63	61	59	58	58	57	56	56	55	54	54	53	53	51
2	60	56	53	50	58	55	52	50	53	51	49	51	49	47	49	48	46	45
3	55	50	47	44	54	49	46	43	48	45	42	46	44	42	45	43	41	40
4	51	45	41	38	50	45	41	38	43	40	37	42	39	37	41	38	36	35
5	48	41	37	34	46	41	36	33	39	36	33	38	35	33	37	35	32	31
6	44	38	33	30	43	37	33	30	36	32	30	35	32	29	34	31	29	28
7	41	34	30	27	40	34	30	27	33	29	27	32	29	26	32	29	26	25
8	39	32	27	24	38	31	27	24	30	27	24	30	26	24	29	26	24	23
9	36	29	25	22	35	29	25	22	28	24	22	28	24	22	27	24	22	21
10	34	27	23	20	33	27	23	20	26	22	20	26	22	20	25	22	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6155	6155	6155
5°	6109	6206	6284
10°	6030	6305	6526
15°	5963	6388	6585
20°	5885	6344	6344
25°	5781	6111	6325
30°	5660	5884	6256
35°	5524	5728	5538
40°	5365	5385	4468
45°	5132	4583	4138
50°	4770	3743	4577
55°	4161	3200	2734
60°	3097	1909	862
65°	1782	634	422
70°	647	329	272
75°	300	210	195
80°	179	134	134
85°	89	89	89



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	152.2	4.7	2.7	0°	1586	1586	1586	1586	1586	
10°-20°	442.7	13.8	7.9	5°	1568	1575	1593	1610	1613	148
20°-30°	656.3	20.4	11.7	15°	1484	1524	1590	1626	1639	418
30°-40°	742.5	23.1	13.3	25°	1350	1422	1427	1437	1477	622
40°-50°	651.9	20.3	11.6	35°	1166	1226	1209	1189	1169	729
50°-60°	438.8	13.6	7.8	45°	935	945	835	717	754	718
60°-70°	110.0	3.4	2.0	55°	615	575	473	459	404	542
70°-80°	18.0	0.6	0.3	65°	194	142	69	52	46	202
80°-90°	2.8	0.1	0.0	75°	20	17	14	13	13	25
90°-100°	0.0	0.0	0.0	85°	2	2	2	2	2	3
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°	1251.2	38.9	22.3	165°	0	0	0	0	0	0
0°-40°	1993.7	62.0	35.6	175°	0	0	0	0	0	0
0°-60°	3084.4	95.9	55.1	180°	0	0	0	0	0	0
0°-90°	3215.1	100.0	57.4							
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°	3215.1	100.0	57.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586	1586	1586	1586	1586
2.5°	1580	1582	1588	1595	1594
5°	1568	1575	1593	1610	1613
7.5°	1550	1565	1597	1627	1637
10°	1530	1554	1600	1645	1656
12.5°	1508	1540	1602	1642	1653
15°	1484	1524	1590	1626	1639
17.5°	1457	1505	1566	1590	1591
20°	1425	1483	1536	1531	1536
22.5°	1389	1456	1489	1474	1497
25°	1350	1422	1427	1437	1477
27.5°	1308	1380	1366	1405	1441
30°	1263	1333	1313	1357	1396
32.5°	1215	1282	1265	1298	1297
35°	1166	1226	1209	1189	1169
37.5°	1114	1161	1143	1060	1022
40°	1059	1091	1063	920	882
42.5°	999	1019	953	796	790
45°	935	945	835	717	754
47.5°	866	866	719	682	769
50°	790	781	620	669	758
52.5°	709	683	546	606	626
55°	615	575	473	459	404
57.5°	511	457	375	275	210
60°	399	337	246	143	111
62.5°	289	228	133	80	68
65°	194	142	69	52	46
67.5°	112	80	43	36	33
70°	57	43	29	26	24
72.5°	32	26	21	19	17
75°	20	17	14	13	13
77.5°	12	11	10	9	9
80°	8	7	6	6	6
82.5°	4	4	4	4	3
85°	2	2	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)