

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: 220P119

Luminaire Tested: **2EP3GX-432S26I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P119
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432S26I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
12 cell semi-specular low iridescent parabolic louver.
Light Source: Four - F32T8/TL835 - 3000 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 87.9

Summary

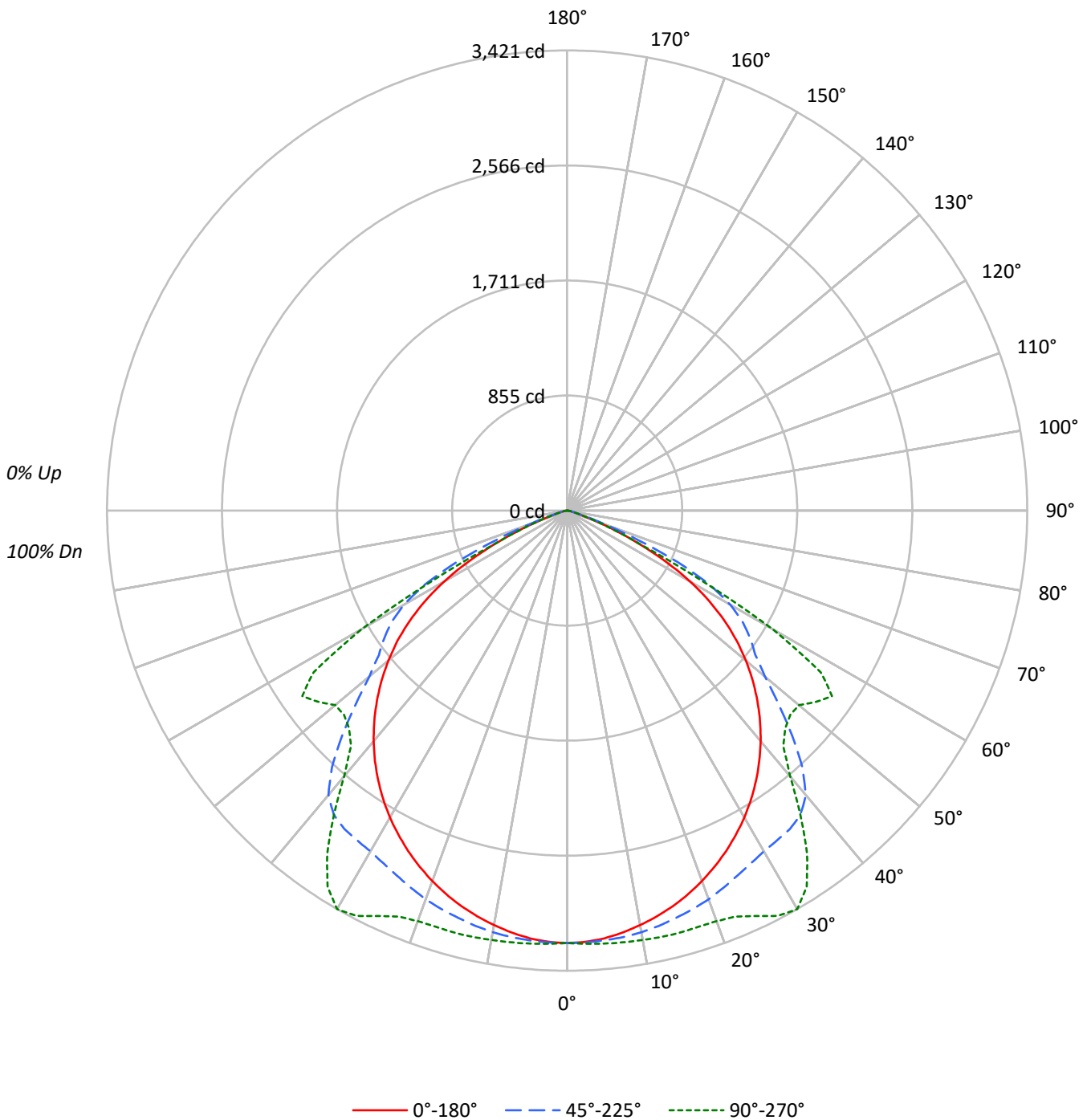
Lumens per Lamp: 3000 (4 lamps)
Luminaire Lumens: 8542.4 lumens
Efficiency: 71.2%
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.45 / 1.43
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 109.1
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				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	85	85	85	85	83	83	83	83	79	79	79		76	76	76		73	73	73	71
1	79	76	73	71	77	74	72	70	71	69	68		69	67	66		66	65	64	62
2	72	67	63	59	71	66	62	59	64	60	57		61	59	56		59	57	55	53
3	66	60	54	50	65	59	54	50	56	52	49		55	51	48		53	50	47	46
4	61	53	47	43	59	52	47	43	50	46	42		49	45	42		47	44	41	40
5	56	48	42	37	55	47	41	37	45	40	37		44	40	36		43	39	36	34
6	52	43	37	32	51	42	36	32	41	36	32		40	35	32		39	35	32	30
7	48	39	33	29	47	38	33	29	37	32	28		36	32	28		35	31	28	27
8	45	35	30	26	44	35	29	25	34	29	25		33	29	25		32	28	25	24
9	42	32	27	23	41	32	27	23	31	26	23		31	26	23		30	26	23	21
10	39	30	24	21	38	30	24	21	29	24	21		28	24	21		28	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5337	5337	5337
5°	5319	5344	5384
10°	5274	5365	5463
15°	5229	5386	5582
20°	5178	5432	5738
25°	5117	5484	6090
30°	5051	5606	6557
35°	4963	5854	6300
40°	4850	5983	5584
45°	4695	5552	5378
50°	4478	4953	5810
55°	4136	4810	6957
60°	3509	4651	5863
65°	2384	3555	2439
70°	1043	1383	1077
75°	398	436	417
80°	220	258	277
85°	133	152	171



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	305.4	3.6	2.5	0°	3215	3215	3215	3215	3215	
10°-20°	887.4	10.4	7.4	5°	3192	3190	3207	3223	3231	303
20°-30°	1399.8	16.4	11.7	15°	3043	3066	3134	3212	3248	858
30°-40°	1756.6	20.6	14.6	25°	2794	2849	2994	3187	3325	1287
40°-50°	1725.5	20.2	14.4	35°	2449	2555	2889	3100	3109	1531
50°-60°	1588.1	18.6	13.2	45°	2000	2181	2365	2190	2291	1540
60°-70°	769.2	9.0	6.4	55°	1429	1648	1662	2040	2404	1265
70°-80°	99.3	1.2	0.8	65°	607	716	905	725	621	606
80°-90°	11.1	0.1	0.1	75°	62	70	68	69	65	87
90°-100°	0.0	0.0	0.0	85°	7	7	8	9	9	9
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°	2592.6	30.3	21.6	165°	0	0	0	0	0	0
0°-40°	4349.1	50.9	36.2	175°	0	0	0	0	0	0
0°-60°	7662.8	89.7	63.9	180°	0	0	0	0	0	0
0°-90°	8542.4	100.0	71.2							
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°	8542.4	100.0	71.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3215	3215	3215	3215	3215
2.5°	3209	3204	3213	3220	3224
5°	3192	3190	3207	3223	3231
7.5°	3164	3167	3198	3225	3237
10°	3129	3139	3183	3222	3241
12.5°	3089	3105	3161	3216	3246
15°	3043	3066	3134	3212	3248
17.5°	2991	3022	3107	3196	3244
20°	2931	2971	3075	3182	3248
22.5°	2865	2913	3035	3174	3266
25°	2794	2849	2994	3187	3325
27.5°	2717	2783	2957	3231	3396
30°	2635	2713	2925	3265	3421
32.5°	2545	2638	2906	3245	3314
35°	2449	2555	2889	3100	3109
37.5°	2347	2467	2849	2878	2848
40°	2238	2376	2761	2617	2577
42.5°	2123	2282	2588	2365	2378
45°	2000	2181	2365	2190	2291
47.5°	1871	2071	2130	2105	2249
50°	1734	1951	1918	2054	2250
52.5°	1589	1814	1764	2030	2335
55°	1429	1648	1662	2040	2404
57.5°	1254	1450	1551	1984	2235
60°	1057	1218	1401	1718	1766
62.5°	839	968	1199	1230	1119
65°	607	716	905	725	621
67.5°	382	478	563	390	372
70°	215	275	285	231	222
72.5°	113	139	133	129	120
75°	62	70	68	69	65
77.5°	38	41	42	44	44
80°	23	25	27	29	29
82.5°	14	15	16	18	18
85°	7	7	8	9	9
87.5°	3	3	3	4	4
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)