

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: 188P149

Luminaire Tested: **2EP3GX-432W36P-NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P149
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-432W36P-NSBC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
18 cell white painted parabolic louver.
Light Source: Four - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic - L.O.B.F. = 89.5

Summary

Lumens per Lamp: 2800 (4 lamps)
Luminaire Lumens: 7176.3 lumens
Efficiency: 64.1%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.21 / 1.25
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

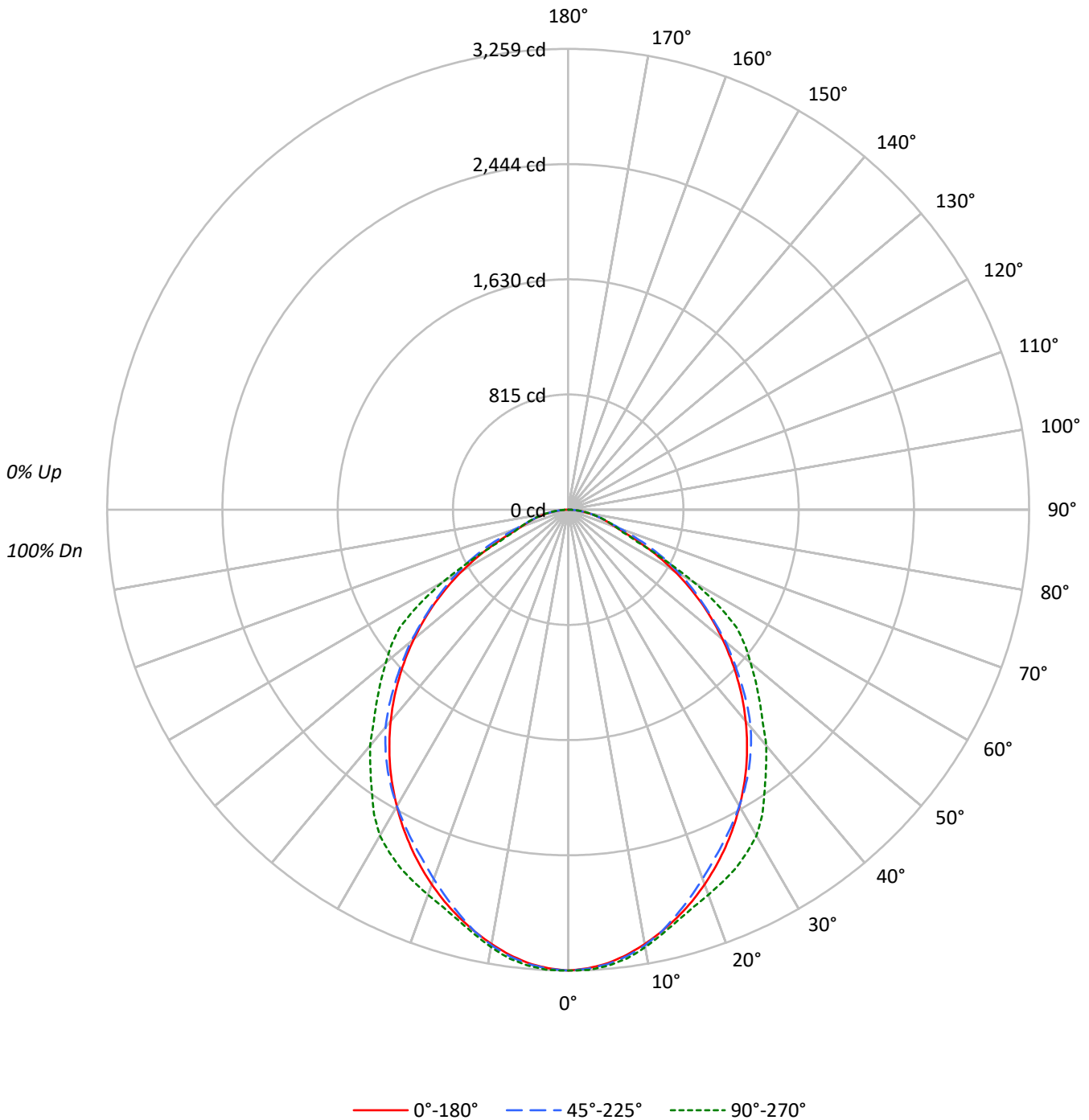
Input Watts (W): 111.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	76	76	76	76	75	75	75	75	71	71	71		68	68	68		65	65	65	64
1	71	68	65	63	69	66	64	62	64	62	60		61	60	58		59	58	57	55
2	65	60	56	53	63	59	55	52	57	54	51		55	52	50		53	51	49	47
3	60	53	49	45	58	52	48	44	51	47	44		49	46	43		47	44	42	41
4	55	48	43	39	53	47	42	38	45	41	38		44	40	37		43	39	37	35
5	51	43	38	34	49	42	37	33	41	36	33		40	36	33		39	35	32	31
6	47	39	34	30	46	38	33	29	37	33	29		36	32	29		35	32	29	28
7	44	35	30	26	43	35	30	26	34	29	26		33	29	26		32	29	26	25
8	41	32	27	24	40	32	27	24	31	27	23		30	26	23		30	26	23	22
9	38	30	25	21	37	30	25	21	29	24	21		28	24	21		27	24	21	20
10	36	28	23	20	35	27	23	19	27	22	19		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5410	5410	5410
5°	5364	5374	5394
10°	5257	5272	5296
15°	5128	5095	5162
20°	4981	4907	5119
25°	4821	4755	5126
30°	4644	4639	5102
35°	4452	4519	4906
40°	4232	4351	4720
45°	3974	4054	4491
50°	3677	3745	4346
55°	3325	3380	4208
60°	2872	3041	3416
65°	2258	2565	2125
70°	1728	1883	1762
75°	1571	1597	1648
80°	1415	1463	1539
85°	1219	1295	1371



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	304.9	4.2	2.7	0°	3259	3259	3259	3259	3259	
10°-20°	839.8	11.7	7.5	5°	3219	3219	3225	3235	3237	304
20°-30°	1222.8	17.0	10.9	15°	2984	2976	2965	2985	3004	840
30°-40°	1408.2	19.6	12.6	25°	2632	2594	2596	2712	2799	1211
40°-50°	1350.3	18.8	12.1	35°	2197	2136	2230	2346	2421	1372
50°-60°	1095.0	15.3	9.8	45°	1693	1660	1727	1801	1913	1304
60°-70°	610.2	8.5	5.4	55°	1149	1155	1168	1314	1454	1024
70°-80°	267.8	3.7	2.4	65°	575	599	653	585	541	579
80°-90°	77.3	1.1	0.7	75°	245	247	249	254	257	261
90°-100°	0.0	0.0	0.0	85°	64	66	68	71	72	70
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	2367.5	33.0	21.1	165°	0	0	0	0	0	0
0°-40°	3775.7	52.6	33.7	175°	0	0	0	0	0	0
0°-60°	6221.0	86.7	55.5	180°	0	0	0	0	0	0
0°-90°	7176.3	100.0	64.1							
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°	7176.3	100.0	64.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3259	3259	3259	3259	3259
2.5°	3246	3245	3250	3257	3258
5°	3219	3219	3225	3235	3237
7.5°	3175	3175	3185	3197	3200
10°	3119	3119	3128	3140	3142
12.5°	3055	3052	3055	3063	3073
15°	2984	2976	2965	2985	3004
17.5°	2906	2893	2873	2909	2946
20°	2820	2802	2778	2843	2898
22.5°	2729	2702	2683	2780	2850
25°	2632	2594	2596	2712	2799
27.5°	2530	2483	2509	2645	2735
30°	2423	2369	2420	2564	2662
32.5°	2312	2254	2328	2472	2554
35°	2197	2136	2230	2346	2421
37.5°	2076	2017	2122	2207	2297
40°	1953	1898	2008	2077	2178
42.5°	1825	1783	1872	1949	2035
45°	1693	1660	1727	1801	1913
47.5°	1560	1539	1587	1673	1797
50°	1424	1415	1450	1552	1683
52.5°	1287	1288	1301	1431	1576
55°	1149	1155	1168	1314	1454
57.5°	1007	1019	1041	1179	1253
60°	865	878	916	994	1029
62.5°	720	736	792	790	762
65°	575	599	653	585	541
67.5°	440	468	511	429	419
70°	356	364	388	360	363
72.5°	298	301	304	306	309
75°	245	247	249	254	257
77.5°	195	197	200	205	208
80°	148	151	153	158	161
82.5°	105	106	109	113	115
85°	64	66	68	71	72
87.5°	28	28	29	31	32
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)