

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: 219P106

Luminaire Tested: **2EP3GX-217S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 219P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-217S33I
Description: 2 X 2 Convertible Body Luminaire with a 3" deep
9 cell semi-specular low iridescent parabolic louver.
Light Source: Two - FO17/735 - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic L.O.B.F. = 89.5

Summary

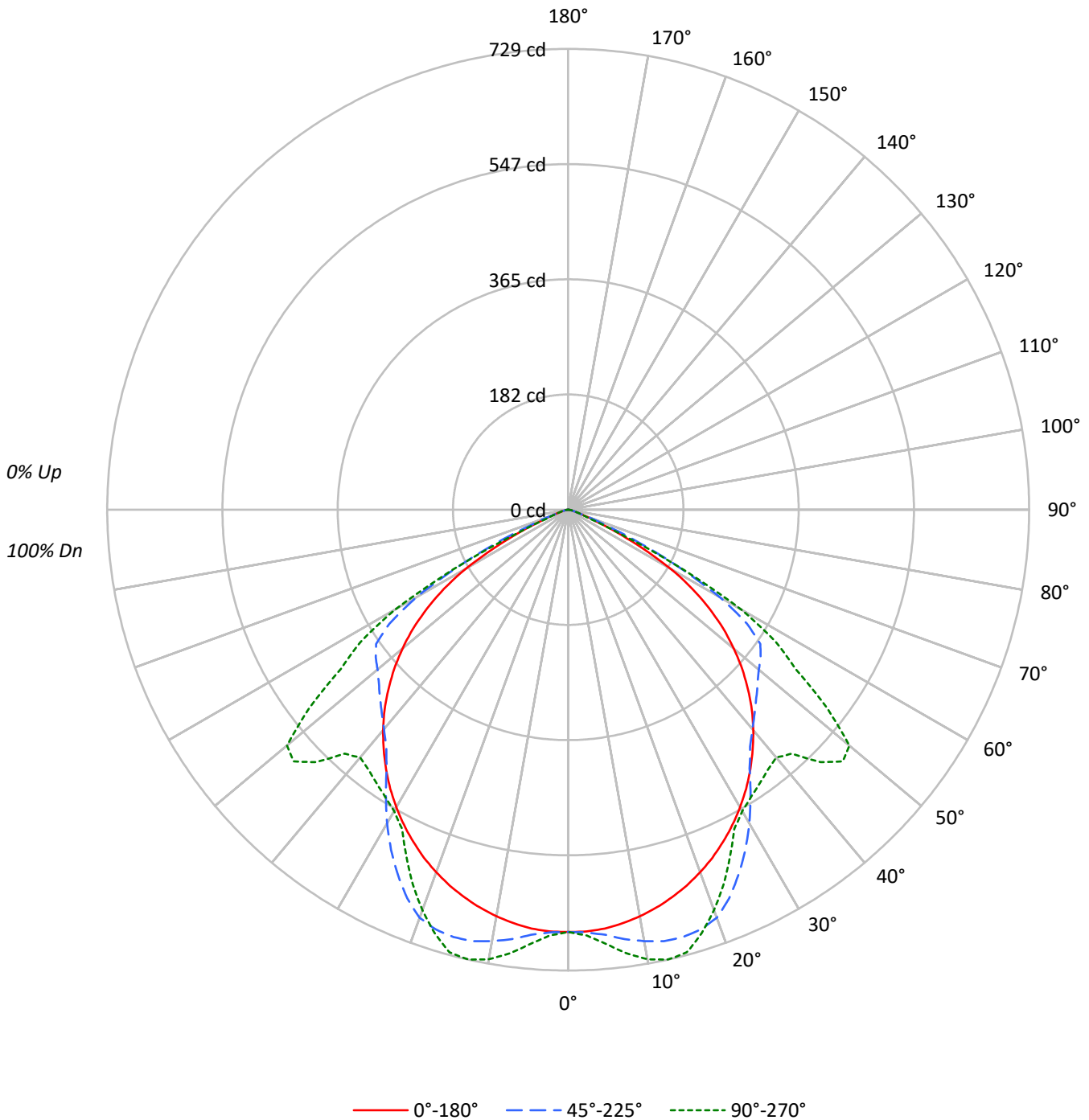
Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1670.2 lumens
Efficiency: 64.2%
Efficacy: 49.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.24 / 1.34
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 34
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		66	66	66	64
1	71	69	67	65	70	67	65	63	65	63	62		62	61	60		60	59	58	57
2	66	61	57	54	64	60	57	54	58	55	52		56	53	51		54	52	50	49
3	60	54	50	46	59	53	49	46	52	48	45		50	47	44		48	46	43	42
4	56	49	44	40	54	48	43	39	46	42	39		45	41	38		43	40	38	37
5	51	44	38	34	50	43	38	34	42	37	34		40	37	34		39	36	33	32
6	47	39	34	30	46	39	34	30	38	33	30		37	33	30		36	32	29	28
7	44	36	30	27	43	35	30	27	34	30	26		33	29	26		33	29	26	25
8	41	33	27	24	40	32	27	24	31	27	24		31	27	24		30	26	23	22
9	38	30	25	22	37	30	25	22	29	24	21		28	24	21		28	24	21	20
10	36	28	23	20	35	27	23	20	27	22	19		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2375	2375	2375
5°	2374	2409	2461
10°	2358	2502	2607
15°	2336	2577	2669
20°	2309	2599	2550
25°	2274	2500	2375
30°	2232	2352	2260
35°	2178	2171	2293
40°	2114	2103	2375
45°	2023	2115	2839
50°	1892	2177	3210
55°	1689	2298	2718
60°	1335	1978	2251
65°	708	1054	774
70°	280	323	244
75°	132	136	154
80°	84	92	104
85°	53	61	61



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	65.0	3.9	2.5	0°	668	668	668	668	668	
10°-20°	193.8	11.6	7.5	5°	665	667	675	684	690	63
20°-30°	284.1	17.0	10.9	15°	635	661	700	721	725	179
30°-40°	326.0	19.5	12.5	25°	580	631	637	612	606	267
40°-50°	351.1	21.0	13.5	35°	502	553	500	511	528	314
50°-60°	315.3	18.9	12.1	45°	402	418	421	490	565	309
60°-70°	119.8	7.2	4.6	55°	272	280	371	426	438	241
70°-80°	13.1	0.8	0.5	65°	84	107	125	116	92	91
80°-90°	2.0	0.1	0.1	75°	10	10	10	11	11	12
90°-100°	0.0	0.0	0.0	85°	1	2	2	2	2	2
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°	542.9	32.5	20.9	165°	0	0	0	0	0	0
0°-40°	868.9	52.0	33.4	175°	0	0	0	0	0	0
0°-60°	1535.3	91.9	59.1	180°	0	0	0	0	0	0
0°-90°	1670.2	100.0	64.2							
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°	1670.2	100.0	64.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	668.0	668.0	668.0	668.0	668.0
2.5°	667.7	667.3	669.2	671.4	674.2
5°	665.2	667.0	675.0	684.4	689.6
7.5°	659.9	665.7	685.3	700.5	707.6
10°	653.1	664.3	693.0	714.2	722.2
12.5°	644.7	663.2	699.0	721.0	728.9
15°	634.7	660.9	700.0	720.8	725.0
17.5°	623.4	656.6	696.3	704.3	702.4
20°	610.3	650.9	687.0	677.1	674.1
22.5°	596.0	642.6	665.3	646.5	642.0
25°	579.7	631.0	637.3	612.2	605.5
27.5°	562.3	616.4	606.7	574.2	569.0
30°	543.6	599.2	572.8	541.9	550.5
32.5°	523.5	579.1	536.5	524.4	538.6
35°	501.8	553.4	500.1	510.8	528.3
37.5°	479.2	522.7	472.3	498.5	518.5
40°	455.4	489.4	453.2	487.0	511.7
42.5°	430.0	454.6	436.3	480.7	523.5
45°	402.3	418.4	420.7	490.4	564.7
47.5°	373.3	381.8	406.1	516.0	589.0
50°	342.1	346.0	393.5	520.4	580.4
52.5°	309.1	311.2	383.6	494.8	516.7
55°	272.5	279.5	370.7	425.5	438.5
57.5°	232.6	246.4	335.3	349.9	389.9
60°	187.7	209.1	278.1	286.2	316.5
62.5°	133.1	161.8	199.4	205.4	206.5
65°	84.1	107.3	125.3	115.6	92.0
67.5°	47.4	62.9	64.6	44.8	36.0
70°	26.9	33.1	31.1	23.5	23.5
72.5°	14.9	17.5	15.0	15.6	16.1
75°	9.6	10.5	9.9	10.7	11.2
77.5°	6.4	6.9	6.8	7.3	7.7
80°	4.1	4.5	4.5	4.8	5.1
82.5°	2.5	2.7	2.8	2.9	3.0
85°	1.3	1.5	1.5	1.6	1.5
87.5°	0.6	0.6	0.7	0.6	0.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)