

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: 126P125

Luminaire Tested: **2GC-217A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P125
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-217A125
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Two - FO17/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = unknown

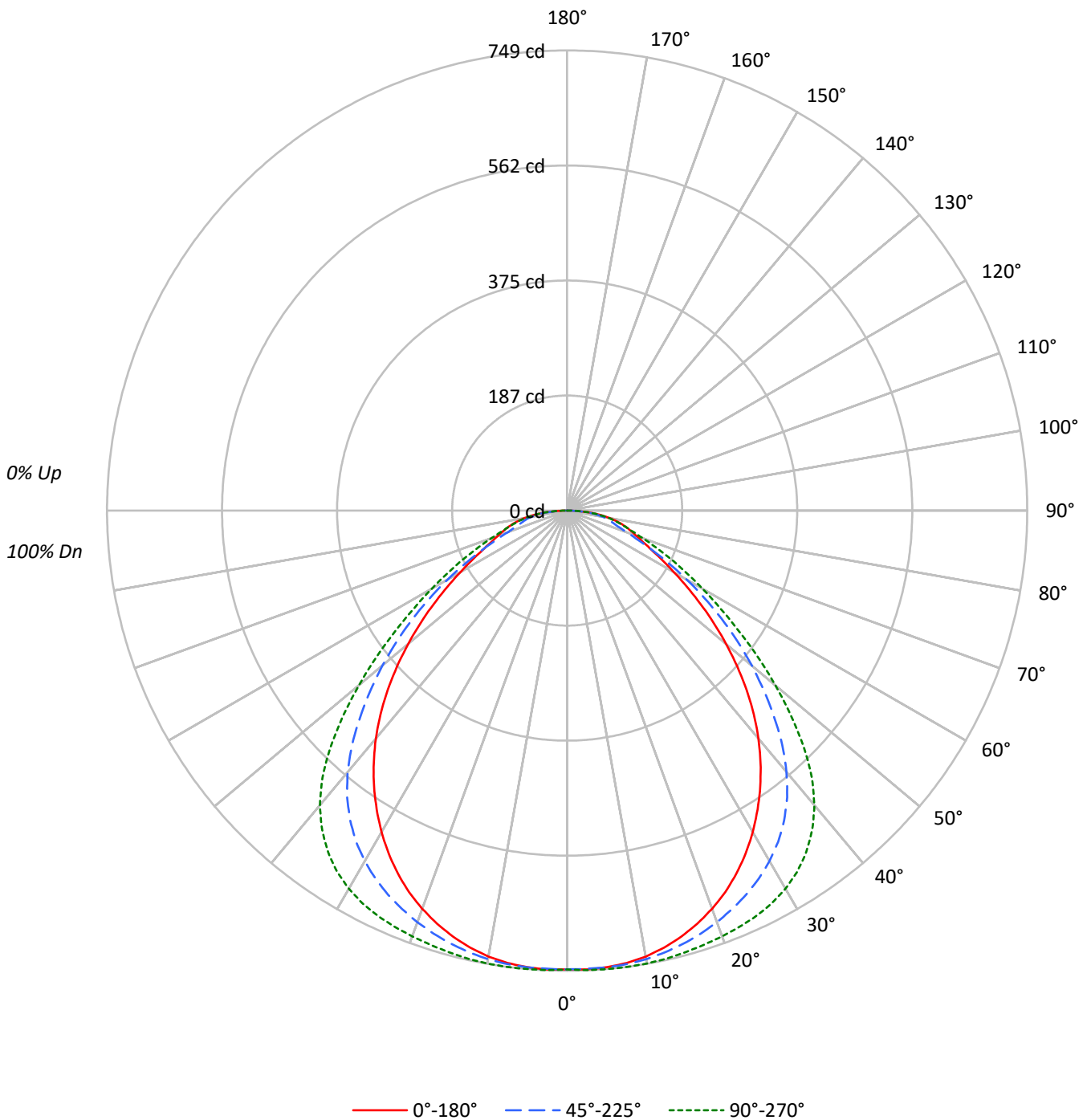
Summary

Lumens per Lamp: 1300 (2 lamps)
Luminaire Lumens: 1910.8 lumens
Efficiency: 73.5%
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.36
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	87	87	87	87	85	85	85	85	82	82	82	78	78	78	75	75	75	73						73													
1	80	77	74	72	79	76	73	70	72	70	68	70	68	66	67	66	64	63						63													
2	74	68	63	59	72	67	62	59	64	61	57	62	59	56	60	57	55	53						53													
3	68	60	55	50	66	59	54	50	57	53	49	55	51	48	53	50	47	46						46													
4	62	54	48	43	61	53	47	43	51	46	42	49	45	42	48	44	41	40						40													
5	57	48	42	38	56	48	42	37	46	41	37	45	40	37	43	39	36	35						35													
6	53	44	38	33	52	43	37	33	42	37	33	41	36	32	39	35	32	31						31													
7	49	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27						27													
8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24						24													
9	43	34	28	24	42	33	27	24	32	27	24	31	27	23	31	26	23	22						22													
10	40	31	25	22	39	31	25	21	30	25	21	29	25	21	29	24	21	20						20													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2483	2483	2483
5°	2490	2490	2500
10°	2488	2502	2527
15°	2471	2513	2561
20°	2440	2522	2609
25°	2391	2530	2671
30°	2320	2529	2728
35°	2225	2499	2754
40°	2103	2411	2717
45°	1941	2243	2563
50°	1746	2027	2289
55°	1535	1777	1973
60°	1335	1496	1691
65°	1192	1207	1458
70°	1161	994	1264
75°	1245	986	1218
80°	1350	1149	1309
85°	1415	1282	1373



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	71.1	3.7	2.7	0°	747	747	747	747	747	
10°-20°	206.3	10.8	7.9	5°	746	745	746	748	749	71
20°-30°	317.8	16.6	12.2	15°	718	720	730	740	744	202
30°-40°	382.6	20.0	14.7	25°	652	662	690	717	728	300
40°-50°	366.6	19.2	14.1	35°	548	566	616	660	679	342
50°-60°	273.8	14.3	10.5	45°	413	432	477	521	545	318
60°-70°	163.5	8.6	6.3	55°	265	277	307	335	340	238
70°-80°	91.9	4.8	3.5	65°	152	154	154	173	185	153
80°-90°	37.2	1.9	1.4	75°	97	87	77	85	95	102
90°-100°	0.0	0.0	0.0	85°	37	38	34	34	36	37
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	595.2	31.2	22.9	165°	0	0	0	0	0	0
0°-40°	977.8	51.2	37.6	175°	0	0	0	0	0	0
0°-60°	1618.2	84.7	62.2	180°	0	0	0	0	0	0
0°-90°	1910.8	100.0	73.5							
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°	1910.8	100.0	73.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.8	746.8	746.8	746.8	746.8
2.5°	747.6	746.0	746.4	747.3	748.7
5°	746.1	745.1	746.2	747.5	749.1
7.5°	742.7	742.3	744.6	747.2	749.2
10°	737.1	737.2	741.3	746.0	748.5
12.5°	728.7	729.8	736.5	743.5	746.9
15°	717.9	720.4	730.1	739.9	744.1
17.5°	704.9	709.1	722.1	735.4	740.9
20°	689.7	695.7	712.8	730.2	737.4
22.5°	672.3	680.1	702.0	724.3	733.3
25°	652.0	662.2	689.7	717.2	728.1
27.5°	629.3	641.8	675.5	708.1	720.9
30°	604.3	618.8	658.9	696.2	710.7
32.5°	576.9	593.6	639.2	680.4	697.0
35°	548.2	566.2	615.7	660.1	678.7
37.5°	517.1	536.4	588.1	634.5	655.3
40°	484.6	504.4	555.6	602.8	626.1
42.5°	449.8	469.6	518.6	564.6	589.7
45°	412.9	432.2	477.2	521.1	545.1
47.5°	375.6	392.7	434.7	475.2	494.6
50°	337.7	353.3	392.0	428.7	442.7
52.5°	300.8	314.2	349.3	381.5	391.1
55°	264.8	276.6	306.6	334.7	340.5
57.5°	231.3	241.8	265.2	289.1	294.8
60°	200.8	209.8	225.0	246.7	254.3
62.5°	174.0	180.1	187.2	208.1	218.0
65°	151.5	153.5	153.5	173.2	185.3
67.5°	133.4	131.1	124.8	142.6	155.7
70°	119.5	113.5	102.3	117.7	130.0
72.5°	108.0	99.4	86.7	98.9	109.9
75°	96.9	86.6	76.8	84.8	94.8
77.5°	84.7	74.4	69.3	72.5	82.2
80°	70.5	63.5	60.0	60.0	68.4
82.5°	54.6	51.8	47.8	47.4	52.7
85°	37.1	37.7	33.6	34.4	36.0
87.5°	18.4	21.1	18.2	19.3	18.9
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)