

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: 126P127

Luminaire Tested: **2GC-417A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P127
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-417A
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.095 pattern 12 acrylic lens.
Light Source: Four - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic

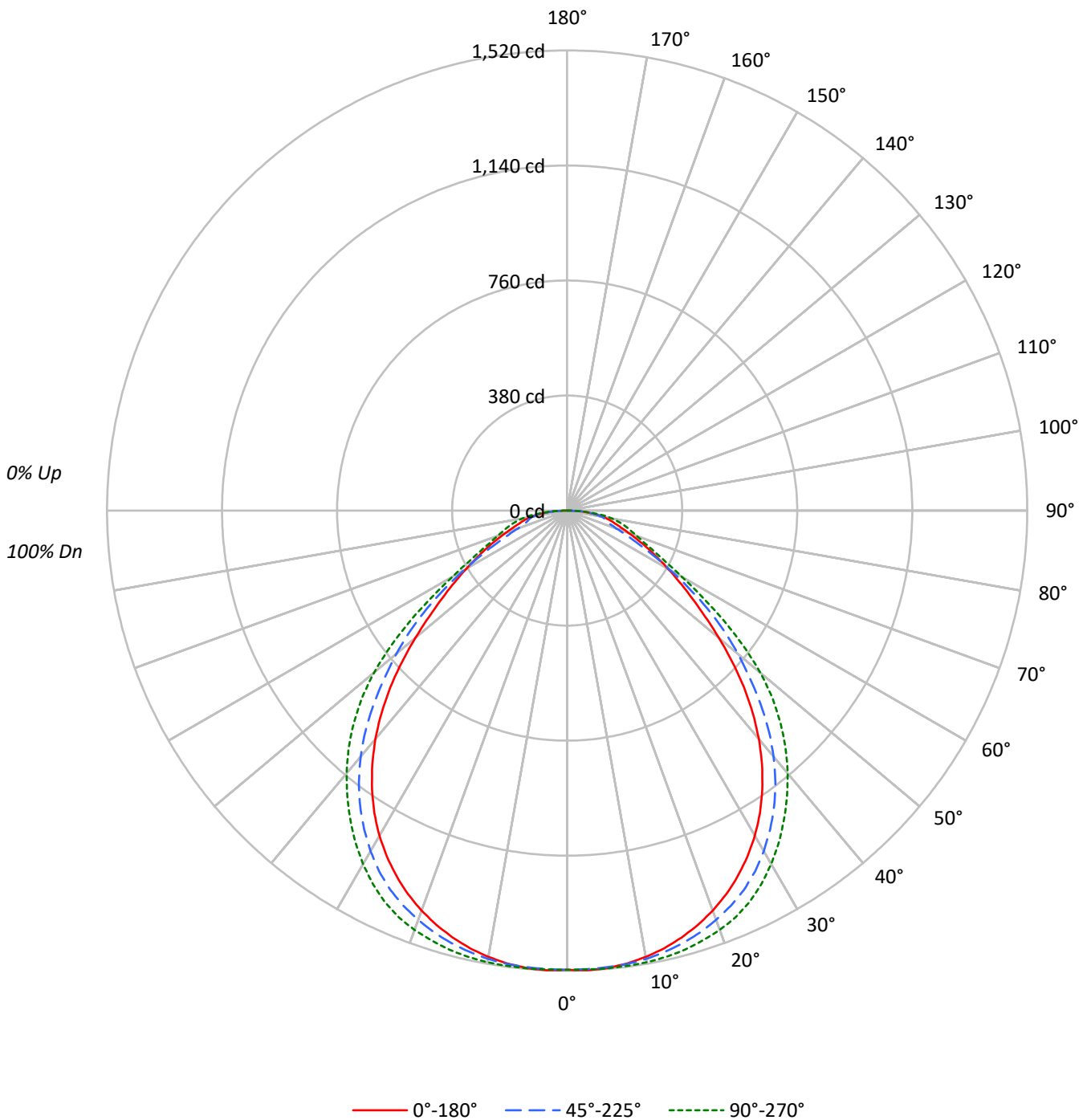
Summary

Lumens per Lamp: 1300 (4 lamps)
Luminaire Lumens: 3671.3 lumens
Efficiency: 70.6%
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.3 / 1.32
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 61.9
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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	71
1	77	74	72	69	76	73	70	68	70	68	66	67	65	64	64	63	62	60
2	71	66	61	58	69	64	60	57	62	58	56	60	57	54	58	55	53	52
3	65	58	53	49	64	57	52	48	55	51	48	53	50	47	52	49	46	44
4	60	52	46	42	59	51	46	42	50	45	41	48	44	41	47	43	40	39
5	56	47	41	37	54	46	41	36	45	40	36	43	39	36	42	38	35	34
6	52	43	37	32	50	42	36	32	41	36	32	40	35	32	38	35	31	30
7	48	39	33	29	47	38	33	29	37	32	29	36	32	28	35	31	28	27
8	45	36	30	26	44	35	30	26	34	29	26	33	29	26	33	28	25	24
9	42	33	27	23	41	32	27	23	32	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	29	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5043	5043	5043
5°	5062	5052	5065
10°	5053	5077	5114
15°	5025	5090	5169
20°	4974	5091	5214
25°	4889	5069	5230
30°	4760	4986	5174
35°	4561	4837	5065
40°	4274	4604	4917
45°	3883	4245	4692
50°	3382	3806	4308
55°	2909	3280	3640
60°	2560	2613	2905
65°	2297	2037	2470
70°	2099	1681	2372
75°	2094	1747	2556
80°	2335	2221	2872
85°	2517	2479	3051



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	144.3	3.9	2.8	0°	1517	1517	1517	1517	1517	
10°-20°	417.7	11.4	8.0	5°	1517	1514	1514	1517	1518	144
20°-30°	634.8	17.3	12.2	15°	1460	1464	1479	1495	1502	412
30°-40°	741.0	20.2	14.2	25°	1333	1348	1382	1413	1426	613
40°-50°	695.7	18.9	13.4	35°	1124	1144	1192	1229	1248	700
50°-60°	502.9	13.7	9.7	45°	826	851	903	957	998	634
60°-70°	288.3	7.9	5.5	55°	502	512	566	602	628	454
70°-80°	173.6	4.7	3.3	65°	292	267	259	307	314	292
80°-90°	73.0	2.0	1.4	75°	163	153	136	182	199	174
90°-100°	0.0	0.0	0.0	85°	66	64	65	79	80	65
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1196.8	32.6	23.0	165°	0	0	0	0	0	0
0°-40°	1937.8	52.8	37.3	175°	0	0	0	0	0	0
0°-60°	3136.4	85.4	60.3	180°	0	0	0	0	0	0
0°-90°	3671.3	100.0	70.6							
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°	3671.3	100.0	70.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1517	1517	1517	1517	1517
2.5°	1520	1517	1516	1517	1517
5°	1517	1514	1514	1517	1518
7.5°	1509	1508	1511	1515	1517
10°	1497	1498	1504	1512	1515
12.5°	1481	1483	1493	1505	1510
15°	1460	1464	1479	1495	1502
17.5°	1435	1441	1461	1481	1489
20°	1406	1414	1439	1464	1474
22.5°	1372	1383	1413	1442	1454
25°	1333	1348	1382	1413	1426
27.5°	1289	1306	1344	1377	1390
30°	1240	1259	1299	1333	1348
32.5°	1185	1204	1248	1284	1301
35°	1124	1144	1192	1229	1248
37.5°	1057	1079	1130	1171	1193
40°	985	1009	1061	1108	1133
42.5°	908	933	986	1036	1069
45°	826	851	903	957	998
47.5°	740	766	818	872	921
50°	654	680	736	785	833
52.5°	573	596	654	695	733
55°	502	512	566	602	628
57.5°	440	435	477	510	526
60°	385	368	393	428	437
62.5°	335	312	320	360	367
65°	292	267	259	307	314
67.5°	252	229	210	267	274
70°	216	199	173	235	244
72.5°	186	175	148	207	220
75°	163	153	136	182	199
77.5°	143	133	128	158	176
80°	122	112	116	133	150
82.5°	95	89	94	109	119
85°	66	64	65	79	80
87.5°	34	35	34	40	37
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)