

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: 126P124

Luminaire Tested: **2GC-417A125**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 126P124
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-417A125
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Four - F017/35K - 1300 Lumens ea. - 17 Watts ea.
Ballast/Driver: Magnetek B432I120RH Electronic

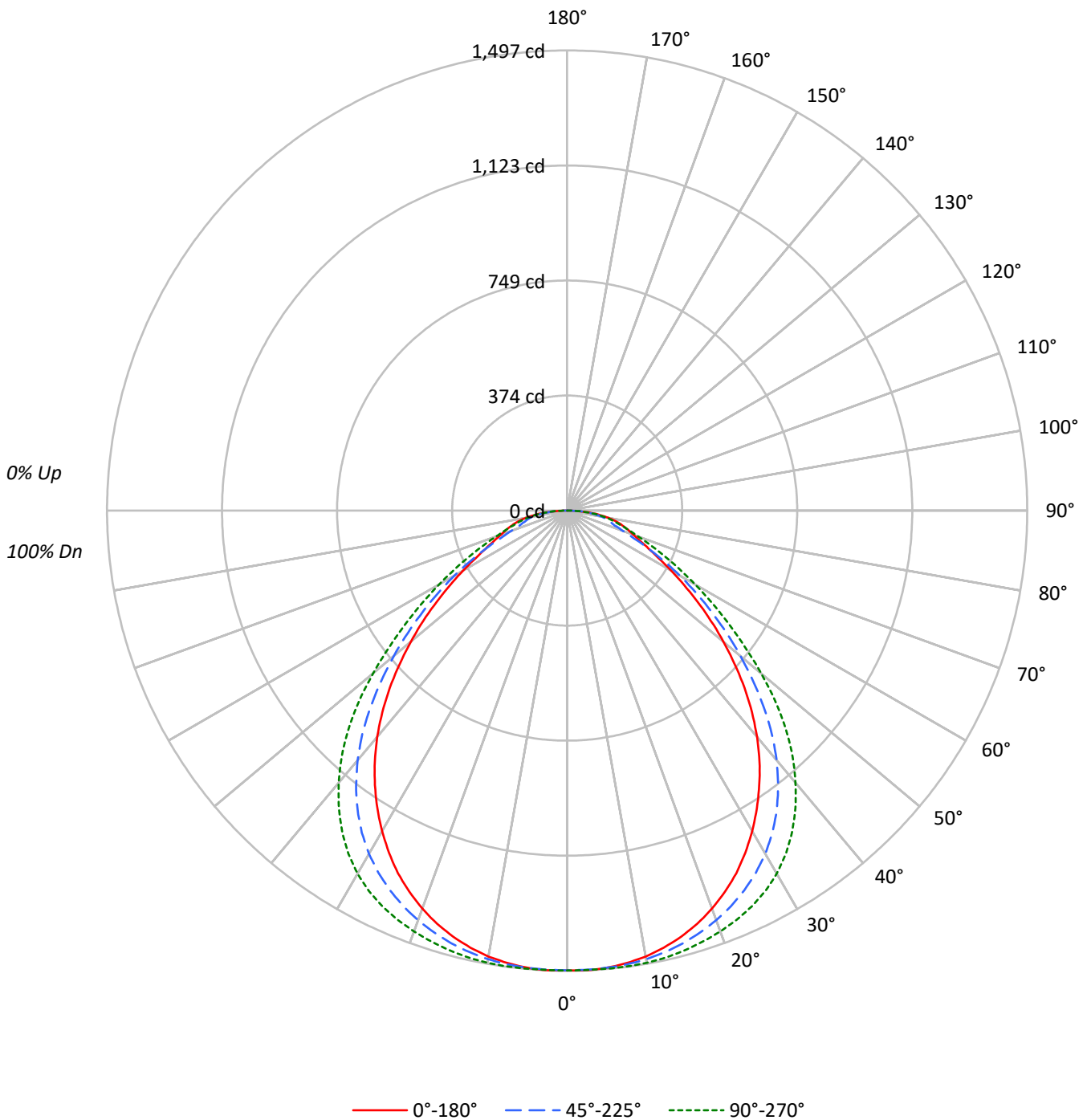
Summary

Lumens per Lamp: 1300 (4 lamps)
Luminaire Lumens: 3687.8 lumens
Efficiency: 70.9%
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.34 / 1.33
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 61.8
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	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71
1	78	75	72	69	76	73	70	68	70	68	66	67	66	64	65	63	62	61
2	71	66	61	58	69	65	60	57	62	59	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	46	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	34	31	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	26	34	29	25	33	29	25	32	28	25	24
9	42	33	27	23	41	32	27	23	31	27	23	31	26	23	30	26	23	22
10	39	30	25	21	38	30	25	21	29	24	21	28	24	21	28	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4973	4973	4973
5°	4982	4982	4992
10°	4972	5002	5043
15°	4939	5014	5097
20°	4875	5016	5154
25°	4776	4999	5212
30°	4622	4948	5236
35°	4423	4825	5178
40°	4170	4600	5016
45°	3836	4255	4734
50°	3434	3806	4261
55°	3002	3315	3715
60°	2593	2806	3198
65°	2297	2273	2737
70°	2226	1876	2381
75°	2389	1862	2286
80°	2604	2163	2431
85°	2708	2403	2517



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	142.3	3.9	2.7	0°	1496	1496	1496	1496	1496	
10°-20°	411.5	11.2	7.9	5°	1493	1493	1493	1496	1496	142
20°-30°	627.0	17.0	12.1	15°	1435	1441	1457	1474	1481	404
30°-40°	738.7	20.0	14.2	25°	1302	1321	1363	1404	1421	598
40°-50°	696.2	18.9	13.4	35°	1090	1118	1189	1251	1276	680
50°-60°	518.4	14.1	10.0	45°	816	842	905	966	1007	628
60°-70°	309.7	8.4	6.0	55°	518	532	572	627	641	466
70°-80°	174.2	4.7	3.3	65°	292	293	289	326	348	295
80°-90°	69.9	1.9	1.3	75°	186	165	145	160	178	195
90°-100°	0.0	0.0	0.0	85°	71	72	63	63	66	71
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°	1180.7	32.0	22.7	165°	0	0	0	0	0	0
0°-40°	1919.4	52.0	36.9	175°	0	0	0	0	0	0
0°-60°	3134.0	85.0	60.3	180°	0	0	0	0	0	0
0°-90°	3687.8	100.0	70.9							
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°	3687.8	100.0	70.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496	1496	1496	1496	1496
2.5°	1497	1496	1495	1496	1496
5°	1493	1493	1493	1496	1496
7.5°	1485	1486	1489	1494	1496
10°	1473	1476	1482	1491	1494
12.5°	1456	1461	1471	1484	1489
15°	1435	1441	1457	1474	1481
17.5°	1409	1418	1439	1461	1470
20°	1378	1390	1418	1445	1457
22.5°	1342	1358	1393	1427	1441
25°	1302	1321	1363	1404	1421
27.5°	1255	1278	1329	1376	1396
30°	1204	1229	1289	1342	1364
32.5°	1149	1176	1243	1301	1324
35°	1090	1118	1189	1251	1276
37.5°	1028	1056	1128	1192	1220
40°	961	989	1060	1124	1156
42.5°	890	917	986	1050	1086
45°	816	842	905	966	1007
47.5°	739	764	820	880	919
50°	664	685	736	795	824
52.5°	590	607	653	710	730
55°	518	532	572	627	641
57.5°	451	464	496	545	558
60°	390	401	422	466	481
62.5°	336	343	353	393	411
65°	292	293	289	326	348
67.5°	256	250	235	268	293
70°	229	217	193	221	245
72.5°	207	190	163	187	207
75°	186	165	145	160	178
77.5°	163	142	131	136	154
80°	136	122	113	112	127
82.5°	106	99	90	88	98
85°	71	72	63	63	66
87.5°	35	40	34	35	33
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)