

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: 108P155

Luminaire Tested: **2GC-232A125**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P155
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-232A125
Description: 2 X 4 Recessed Convertible Body Luminaire with a
.125 pattern 12 acrylic lens.
Light Source: Two - F032/735 - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

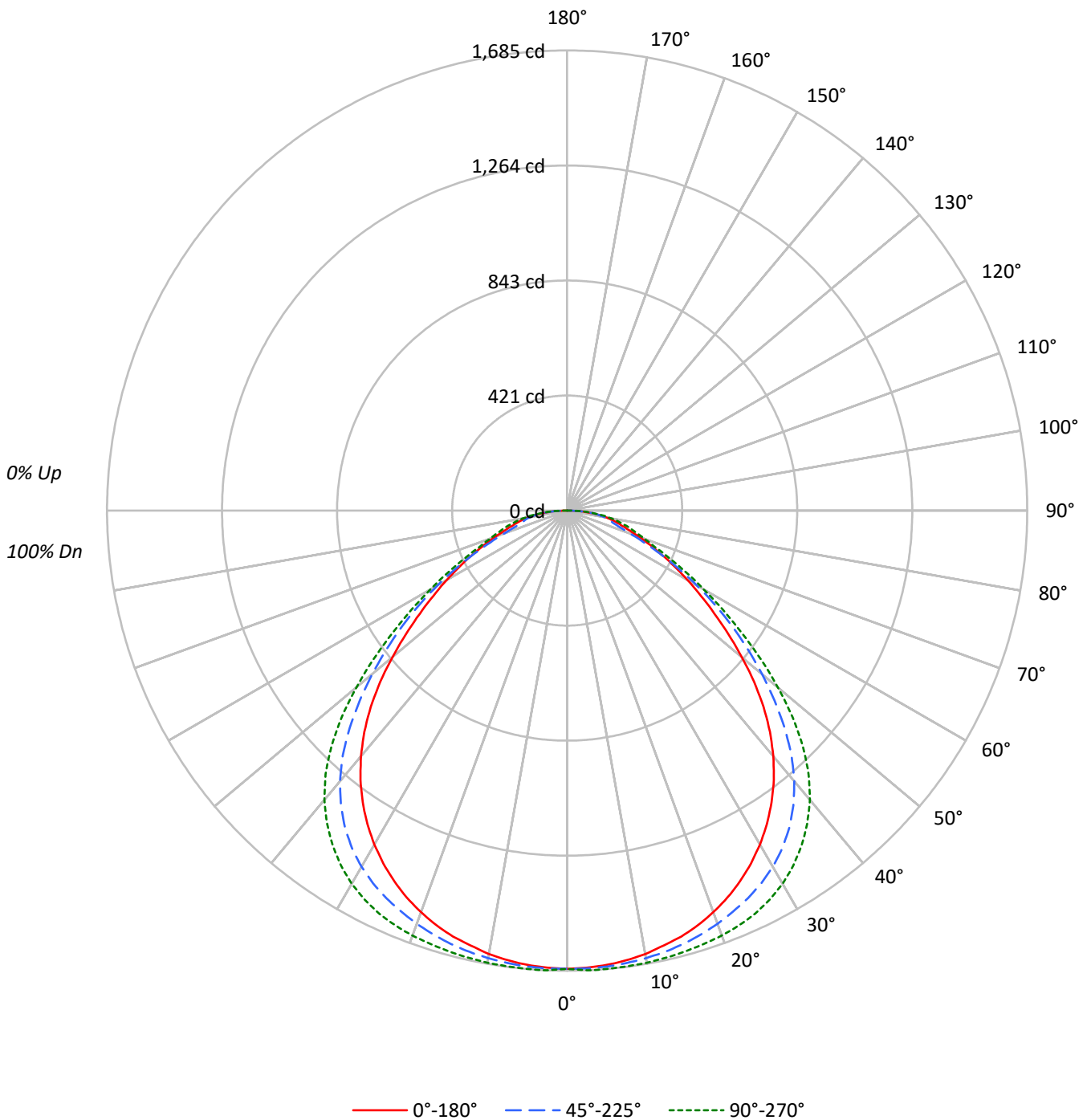
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4426.1 lumens
Efficiency: 79.0%
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.38 / 1.39
Luminous Opening: Rectangular (W 1.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																			
1	87	83	80	77	84	81	78	76	78	75	73	75	73	71	72	70	69	67																			
2	79	73	68	64	77	72	67	63	69	65	62	66	63	60	64	61	59	57																			
3	73	65	59	54	71	64	58	53	61	56	52	59	55	51	57	54	51	49																			
4	67	58	51	46	65	57	51	46	55	49	45	53	48	45	51	47	44	42																			
5	62	52	45	40	60	51	45	40	49	44	39	48	43	39	46	42	39	37																			
6	57	47	40	35	56	46	40	35	45	39	35	43	38	34	42	38	34	32																			
7	53	43	36	31	52	42	36	31	41	35	31	40	34	31	39	34	30	29																			
8	49	39	32	28	48	38	32	28	37	32	28	36	31	27	35	31	27	26																			
9	46	36	29	25	45	35	29	25	34	29	25	34	28	25	33	28	25	23																			
10	43	33	27	23	42	33	27	23	32	26	23	31	26	23	30	26	22	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2644	2644	2644
5°	2642	2651	2665
10°	2639	2663	2690
15°	2635	2680	2726
20°	2624	2700	2777
25°	2605	2723	2832
30°	2569	2740	2871
35°	2510	2728	2880
40°	2415	2662	2845
45°	2266	2509	2721
50°	2047	2282	2471
55°	1810	2025	2143
60°	1604	1727	1825
65°	1424	1406	1540
70°	1285	1129	1378
75°	1236	1059	1400
80°	1334	1270	1488
85°	1392	1483	1591



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	159.5	3.6	2.8	0°	1678	1678	1678	1678	1678	
10°-20°	464.0	10.5	8.3	5°	1670	1670	1676	1678	1685	159
20°-30°	720.6	16.3	12.9	15°	1615	1621	1643	1660	1671	456
30°-40°	877.9	19.8	15.7	25°	1498	1516	1566	1609	1629	690
40°-50°	859.7	19.4	15.4	35°	1305	1343	1418	1469	1497	814
50°-60°	654.5	14.8	11.7	45°	1017	1050	1126	1189	1221	780
60°-70°	393.0	8.9	7.0	55°	659	687	737	777	780	593
70°-80°	210.9	4.8	3.8	65°	382	378	377	410	413	382
80°-90°	86.1	1.9	1.5	75°	203	185	174	205	230	218
90°-100°	0.0	0.0	0.0	85°	77	76	82	91	88	77
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°	1344.1	30.4	24.0	165°	0	0	0	0	0	0
0°-40°	2222.0	50.2	39.7	175°	0	0	0	0	0	0
0°-60°	3736.1	84.4	66.7	180°	0	0	0	0	0	0
0°-90°	4426.1	100.0	79.0							
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°	4426.1	100.0	79.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678	1678	1678	1678	1678
2.5°	1675	1674	1678	1679	1685
5°	1670	1670	1676	1678	1685
7.5°	1661	1662	1671	1676	1683
10°	1649	1651	1664	1673	1681
12.5°	1631	1638	1655	1667	1677
15°	1615	1621	1643	1660	1671
17.5°	1592	1601	1628	1651	1664
20°	1565	1577	1610	1640	1656
22.5°	1534	1548	1589	1626	1644
25°	1498	1516	1566	1609	1629
27.5°	1457	1481	1539	1585	1606
30°	1412	1440	1506	1555	1578
32.5°	1361	1395	1466	1516	1541
35°	1305	1343	1418	1469	1497
37.5°	1243	1283	1361	1413	1444
40°	1174	1214	1294	1350	1383
42.5°	1099	1136	1216	1276	1309
45°	1017	1050	1126	1189	1221
47.5°	928	957	1030	1092	1120
50°	835	864	931	988	1008
52.5°	744	774	833	883	893
55°	659	687	737	777	780
57.5°	581	605	641	676	675
60°	509	526	548	579	579
62.5°	443	449	459	491	492
65°	382	378	377	410	413
67.5°	328	314	304	341	348
70°	279	260	245	284	299
72.5°	237	218	201	240	262
75°	203	185	174	205	230
77.5°	175	158	158	176	198
80°	147	132	140	152	164
82.5°	114	106	114	126	129
85°	77	76	82	91	88
87.5°	37	41	44	50	47
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)