

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: 108P156

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P156
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-232A
Description: 2 X 4 Recessed Convertible Body Luminaire with a
.095 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

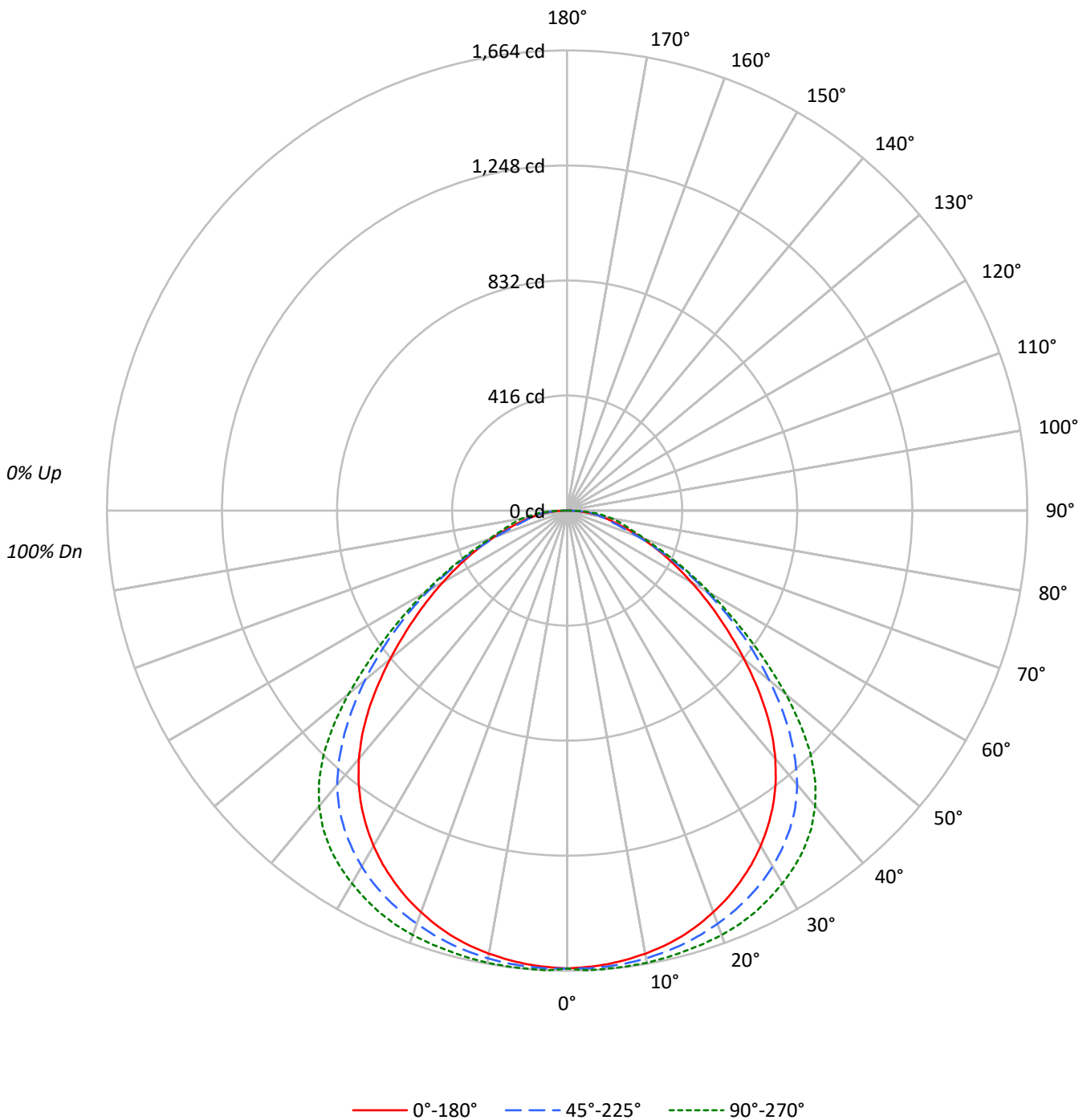
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4443.9 lumens
Efficiency: 79.4%
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.39 / 1.4
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

TEST NUMBER: 108P156
CATALOG NUMBER: 2GC-232A

Luminous Intensity Polar Plot





TEST NUMBER: 108P156
 CATALOG NUMBER: 2GC-232A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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	85	81	79	76	78	76	74	75	73	71	72	71	69	68																				
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	44	51	47	44	42																				
5	62	52	45	40	60	51	44	40	49	44	39	48	43	39	46	42	38	37																				
6	57	47	40	35	56	46	40	35	45	39	35	43	38	34	42	37	34	32																				
7	53	42	36	31	52	42	35	31	41	35	31	40	34	30	38	34	30	29																				
8	49	39	32	28	48	38	32	28	37	32	27	36	31	27	35	31	27	26																				
9	46	36	29	25	45	35	29	25	34	29	25	33	28	25	33	28	24	23																				
10	43	33	27	23	42	32	27	23	32	26	22	31	26	22	30	26	22	21																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2609	2609	2609
5°	2605	2618	2631
10°	2603	2631	2656
15°	2602	2648	2690
20°	2591	2666	2738
25°	2575	2688	2789
30°	2547	2704	2833
35°	2499	2703	2872
40°	2409	2662	2870
45°	2257	2536	2774
50°	2047	2339	2527
55°	1832	2099	2195
60°	1639	1825	1881
65°	1465	1536	1596
70°	1295	1239	1373
75°	1163	1053	1346
80°	1143	1143	1497
85°	1193	1392	1700



TEST NUMBER: 108P156
 CATALOG NUMBER: 2GC-232A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	157.5	3.5	2.8	0°	1656	1656	1656	1656	1656	
10°-20°	458.1	10.3	8.2	5°	1647	1646	1655	1657	1663	157
20°-30°	711.3	16.0	12.7	15°	1595	1599	1623	1639	1649	450
30°-40°	872.9	19.6	15.6	25°	1481	1497	1546	1586	1604	682
40°-50°	867.8	19.5	15.5	35°	1299	1329	1405	1466	1493	810
50°-60°	669.4	15.1	12.0	45°	1013	1049	1138	1213	1245	778
60°-70°	412.6	9.3	7.4	55°	667	701	764	788	799	599
70°-80°	212.4	4.8	3.8	65°	393	397	412	432	428	391
80°-90°	82.0	1.8	1.5	75°	191	188	173	214	221	206
90°-100°	0.0	0.0	0.0	85°	66	70	77	91	94	66
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1326.8	29.9	23.7	165°	0	0	0	0	0	0
0°-40°	2199.7	49.5	39.3	175°	0	0	0	0	0	0
0°-60°	3736.9	84.1	66.7	180°	0	0	0	0	0	0
0°-90°	4443.9	100.0	79.4							
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°	4443.9	100.0	79.4							



TEST NUMBER: 108P156
 CATALOG NUMBER: 2GC-232A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656	1656	1656	1656	1656
2.5°	1652	1650	1657	1658	1664
5°	1647	1646	1655	1657	1663
7.5°	1638	1639	1651	1656	1662
10°	1627	1629	1644	1652	1660
12.5°	1613	1616	1635	1647	1656
15°	1595	1599	1623	1639	1649
17.5°	1572	1579	1608	1630	1642
20°	1545	1556	1590	1619	1633
22.5°	1516	1528	1570	1605	1621
25°	1481	1497	1546	1586	1604
27.5°	1443	1462	1519	1562	1582
30°	1400	1423	1486	1535	1557
32.5°	1352	1379	1448	1503	1528
35°	1299	1329	1405	1466	1493
37.5°	1239	1271	1355	1421	1450
40°	1171	1205	1294	1365	1395
42.5°	1096	1130	1220	1296	1328
45°	1013	1049	1138	1213	1245
47.5°	924	964	1048	1114	1144
50°	835	875	954	1007	1031
52.5°	748	787	859	896	913
55°	667	701	764	788	799
57.5°	591	619	669	686	694
60°	520	540	579	593	597
62.5°	454	466	493	509	509
65°	393	397	412	432	428
67.5°	335	333	336	362	355
70°	281	275	269	303	298
72.5°	233	227	214	255	254
75°	191	188	173	214	221
77.5°	155	155	147	181	193
80°	126	127	126	151	165
82.5°	98	99	104	123	133
85°	66	70	77	91	94
87.5°	32	37	43	50	49
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



TEST NUMBER: 108P156
CATALOG NUMBER: 2GC-232A

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)