

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: 112P113

Luminaire Tested: **DCI-148PG**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 112P113
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DCI-148PG
Description: Heavy-duty Industrial with Tombstone Sockets.
Light Source: One - F48PG17/CW, 6900 Lumens ea., 110 Watts ea.
Ballast/Driver: -

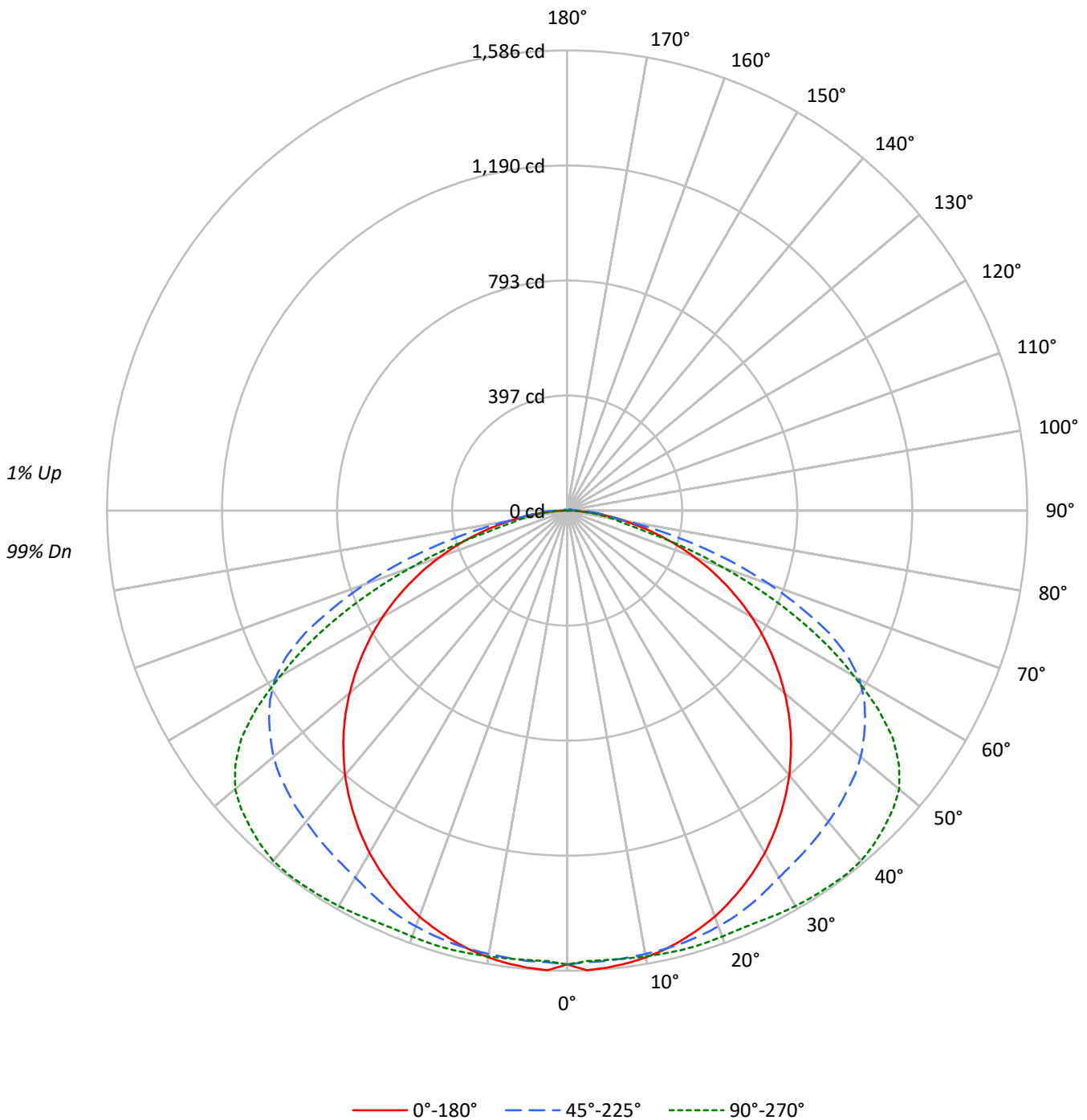
Summary

Lumens per Lamp: 6900 (1 lamp)
Luminaire Lumens: 5741.7 lumens
Efficiency: 83.2%
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.55 / 1.6
Luminous Opening: Rectangular (W 1.09' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 124.8
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									
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	99	99	99	99	97	97	97	97	92	92	92	88	88	88	84	84	84	83						83													
1	90	85	82	78	87	83	80	77	80	77	74	76	74	72	73	71	70	68						68													
2	81	74	68	62	79	72	66	62	69	64	60	66	62	59	63	60	57	55						55													
3	73	64	57	51	71	63	56	50	60	54	49	57	53	48	55	51	48	46						46													
4	67	56	48	42	65	55	48	42	53	46	41	51	45	41	49	44	40	38						38													
5	61	50	42	36	59	49	41	36	47	40	35	45	39	35	43	38	34	32						32													
6	56	44	37	31	54	44	36	31	42	35	30	40	35	30	39	34	30	28						28													
7	52	40	32	27	50	39	32	27	38	31	27	37	31	26	35	30	26	24						24													
8	48	36	29	24	47	36	29	24	34	28	24	33	28	23	32	27	23	21						21													
9	45	33	26	21	44	33	26	21	32	25	21	31	25	21	30	25	21	19						19													
10	42	30	24	19	41	30	23	19	29	23	19	28	23	19	27	22	19	17						17													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3848	3848	3848
5°	3904	3848	3840
10°	3907	3877	3897
15°	3902	3930	3986
20°	3898	3993	4089
25°	3885	4066	4243
30°	3869	4148	4471
35°	3847	4298	4742
40°	3825	4496	5061
45°	3792	4749	5375
50°	3747	5056	5718
55°	3689	5379	5881
60°	3617	5722	5624
65°	3504	5792	5094
70°	3345	5330	4107
75°	3118	4430	2690
80°	2777	2876	2182
85°	2286	2992	2032



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	148.9	2.6	2.2	0°	1564	1564	1564	1564	1564	
10°-20°	436.8	7.6	6.3	5°	1581	1561	1558	1559	1555	150
20°-30°	691.4	12.0	10.0	15°	1532	1523	1543	1562	1565	433
30°-40°	898.1	15.6	13.0	25°	1431	1444	1498	1545	1563	660
40°-50°	1034.5	18.0	15.0	35°	1281	1327	1431	1541	1579	802
50°-60°	1053.8	18.4	15.3	45°	1090	1169	1365	1504	1545	840
60°-70°	858.2	14.9	12.4	55°	860	1007	1254	1361	1371	768
70°-80°	456.2	7.9	6.6	65°	602	853	995	915	875	595
80°-90°	126.5	2.2	1.8	75°	328	607	466	329	283	347
90°-100°	23.2	0.4	0.3	85°	81	163	106	77	72	91
100°-110°	8.3	0.1	0.1	90°	10	89	34	6	0	8
110°-120°	3.5	0.1	0.1	95°	1	53	23	4	0	1
120°-130°	1.5	0.0	0.0	105°	0	15	12	3	0	0
130°-140°	0.8	0.0	0.0	115°	0	4	7	3	0	0
140°-150°	0.1	0.0	0.0	125°	0	1	3	2	0	0
150°-160°	0.0	0.0	0.0	135°	0	1	1	2	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°	1277.1	22.2	18.5	165°	0	0	0	0	0	0
0°-40°	2175.2	37.9	31.5	175°	0	0	0	0	0	0
0°-60°	4263.6	74.3	61.8	180°	0	0	0	0	0	0
0°-90°	5704.4	99.3	82.7							
90°-120°	35.0	0.6	0.5							
90°-150°	37.3	0.7	0.5							
90°-180°	37.0	0.6	0.5							
0°-180°	5741.7	100.0	83.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564	1564	1564	1564	1564
2.5°	1586	1564	1558	1559	1554
5°	1581	1561	1558	1559	1555
7.5°	1574	1555	1555	1561	1557
10°	1564	1546	1552	1562	1560
12.5°	1550	1536	1548	1562	1563
15°	1532	1523	1543	1562	1565
17.5°	1512	1507	1535	1562	1565
20°	1489	1489	1525	1557	1562
22.5°	1461	1468	1513	1549	1560
25°	1431	1444	1498	1545	1563
27.5°	1398	1418	1479	1544	1569
30°	1362	1389	1460	1544	1574
32.5°	1323	1359	1445	1543	1577
35°	1281	1327	1431	1541	1579
37.5°	1237	1292	1416	1538	1580
40°	1191	1253	1400	1535	1576
42.5°	1141	1212	1385	1524	1563
45°	1090	1169	1365	1504	1545
47.5°	1036	1127	1346	1483	1523
50°	979	1086	1321	1456	1494
52.5°	920	1046	1289	1419	1442
55°	860	1007	1254	1361	1371
57.5°	798	969	1214	1284	1270
60°	735	932	1163	1174	1143
62.5°	669	894	1092	1047	1017
65°	602	853	995	915	875
67.5°	535	805	868	772	724
70°	465	754	741	621	571
72.5°	397	695	607	473	429
75°	328	607	466	329	283
77.5°	260	485	332	211	196
80°	196	377	203	159	154
82.5°	136	267	145	118	112
85°	81	163	106	77	72
87.5°	38	120	67	37	31
90°	10	89	34	6	0
92.5°	2	72	28	5	0
95°	1	53	23	4	0
97.5°	0	39	19	4	0
100°	0	28	16	4	0
102.5°	0	20	14	3	0
105°	0	15	12	3	0
107.5°	0	11	10	3	0
110°	0	8	9	3	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	6	8	3	0
115°	0	4	7	3	0
117.5°	0	2	6	3	0
120°	0	1	5	3	0
122.5°	0	1	4	3	0
125°	0	1	3	2	0
127.5°	0	1	3	2	0
130°	0	1	2	2	0
132.5°	0	1	2	1	0
135°	0	1	1	2	0
137.5°	0	1	1	2	0
140°	1	0	1	1	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)