

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: 147P106

Luminaire Tested: **DCIM-232-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 147P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DCIM-232-PAF
Description: DCIM Series Heavy Duty Industrial Luminaire with a post-painted reflector.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

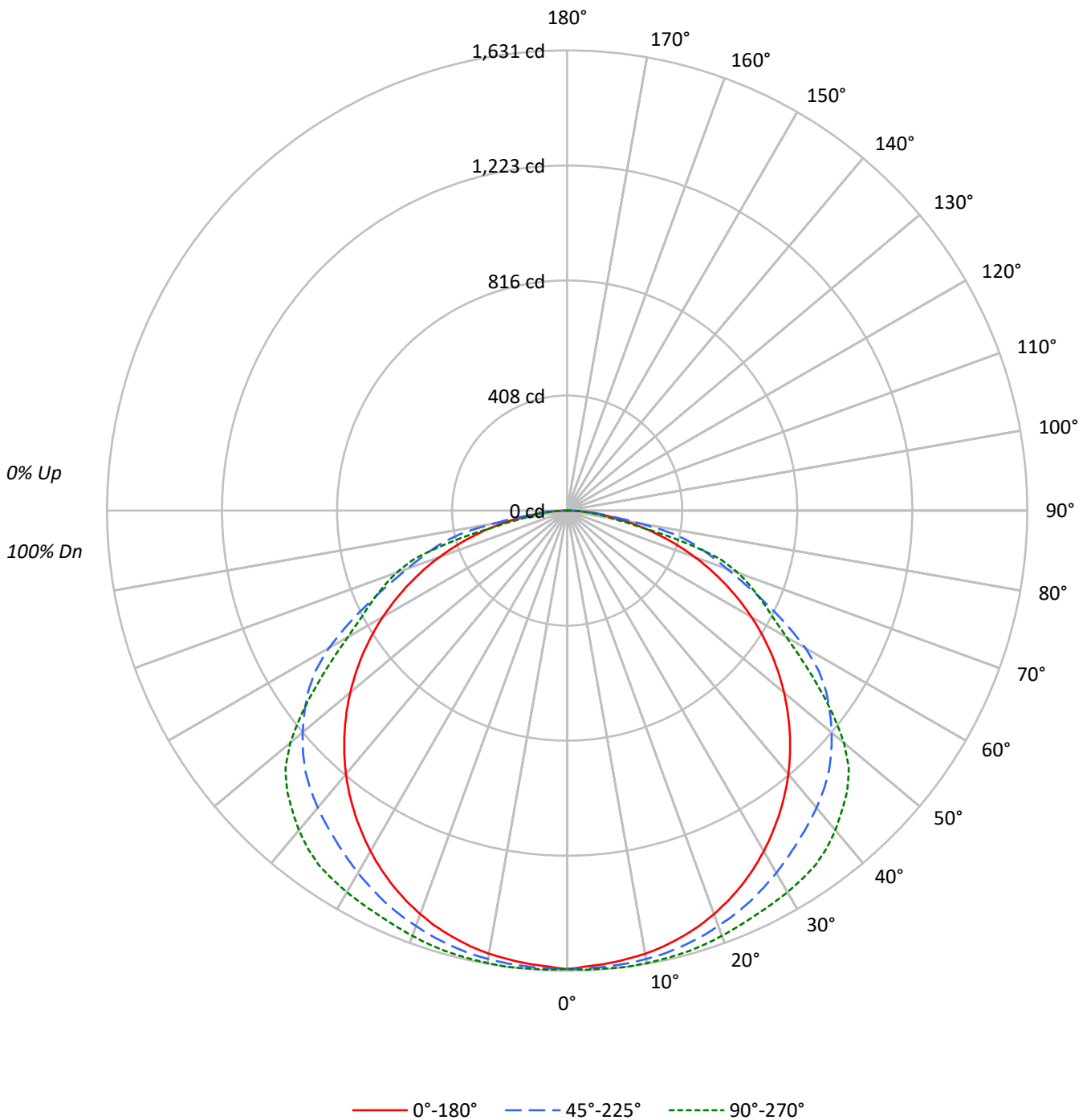
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 5448.9 lumens
Efficiency: 97.3%
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.45 / 1.52
Luminous Opening: Rectangular (W 1.08' x L: 4.15' x H: 0')
CIE Type: Direct

Input Watts (W): 58.8
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	116	116	116	116	113	113	113	113	108	108	108	104	104	104	99	99	99	97
1	105	100	96	92	103	98	94	90	94	91	88	90	87	85	87	84	82	80
2	95	87	80	74	92	85	78	73	81	76	71	78	73	69	75	71	68	66
3	86	76	67	61	84	74	66	60	71	64	59	68	63	58	66	61	57	55
4	79	66	58	51	76	65	57	50	63	55	50	60	54	49	58	53	48	46
5	72	59	50	43	70	58	49	43	56	48	43	54	47	42	52	46	42	39
6	66	53	44	37	64	52	43	37	50	43	37	49	42	37	47	41	36	34
7	61	48	39	33	60	47	39	33	45	38	32	44	37	32	43	37	32	30
8	57	43	35	29	56	43	35	29	41	34	29	40	34	29	39	33	28	26
9	53	40	32	26	52	39	31	26	38	31	26	37	30	26	36	30	25	24
10	50	37	29	23	49	36	29	23	35	28	23	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3895	3895	3895
5°	3878	3902	3919
10°	3882	3928	3962
15°	3883	3960	4022
20°	3882	3997	4091
25°	3874	4046	4184
30°	3858	4104	4323
35°	3839	4181	4488
40°	3817	4302	4627
45°	3783	4444	4759
50°	3744	4564	4776
55°	3690	4684	4542
60°	3619	4674	4300
65°	3516	4406	4333
70°	3371	4218	4513
75°	3148	4343	3899
80°	2802	3630	2208
85°	2337	2777	2117



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	154.6	2.8	2.8	0°	1625	1625	1625	1625	1625	
10°-20°	450.8	8.3	8.1	5°	1612	1618	1622	1628	1629	153
20°-30°	704.9	12.9	12.6	15°	1565	1577	1596	1613	1621	442
30°-40°	894.5	16.4	16.0	25°	1465	1488	1530	1565	1582	675
40°-50°	989.9	18.2	17.7	35°	1312	1355	1429	1506	1534	821
50°-60°	938.1	17.2	16.8	45°	1116	1184	1311	1382	1404	861
60°-70°	744.7	13.7	13.3	55°	883	987	1121	1113	1087	789
70°-80°	455.9	8.4	8.1	65°	620	775	777	754	764	613
80°-90°	115.6	2.1	2.1	75°	340	464	469	461	421	359
90°-100°	0.0	0.0	0.0	85°	85	143	101	81	77	94
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°	1310.3	24.0	23.4	165°	0	0	0	0	0	0
0°-40°	2204.7	40.5	39.4	175°	0	0	0	0	0	0
0°-60°	4132.7	75.8	73.8	180°	0	0	0	0	0	0
0°-90°	5448.9	100.0	97.3							
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°	5448.9	100.0	97.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625	1625	1625	1625	1625
2.5°	1617	1622	1624	1628	1629
5°	1612	1618	1622	1628	1629
7.5°	1604	1612	1619	1627	1631
10°	1595	1603	1614	1625	1628
12.5°	1582	1592	1607	1619	1625
15°	1565	1577	1596	1613	1621
17.5°	1546	1559	1583	1605	1614
20°	1522	1539	1567	1594	1604
22.5°	1495	1515	1550	1580	1593
25°	1465	1488	1530	1565	1582
27.5°	1431	1458	1507	1550	1572
30°	1394	1426	1483	1537	1562
32.5°	1354	1392	1456	1523	1549
35°	1312	1355	1429	1506	1534
37.5°	1267	1316	1403	1485	1510
40°	1220	1274	1375	1457	1479
42.5°	1169	1230	1345	1422	1442
45°	1116	1184	1311	1382	1404
47.5°	1061	1136	1270	1340	1354
50°	1004	1086	1224	1285	1281
52.5°	944	1036	1174	1208	1187
55°	883	987	1121	1113	1087
57.5°	820	937	1058	1013	988
60°	755	889	975	915	897
62.5°	688	835	877	828	823
65°	620	775	777	754	764
67.5°	552	711	683	695	705
70°	481	645	602	631	644
72.5°	411	561	534	571	566
75°	340	464	469	461	421
77.5°	270	370	392	293	253
80°	203	289	263	173	160
82.5°	140	224	150	122	118
85°	85	143	101	81	77
87.5°	40	79	57	41	35
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)