

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: 147P107

Luminaire Tested: **DCIM-SS-232**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: 147P107  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: DCIM-SS-232  
Description: DCIM Series Heavy Duty Industrial Luminaire with a silver steel reflector.  
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

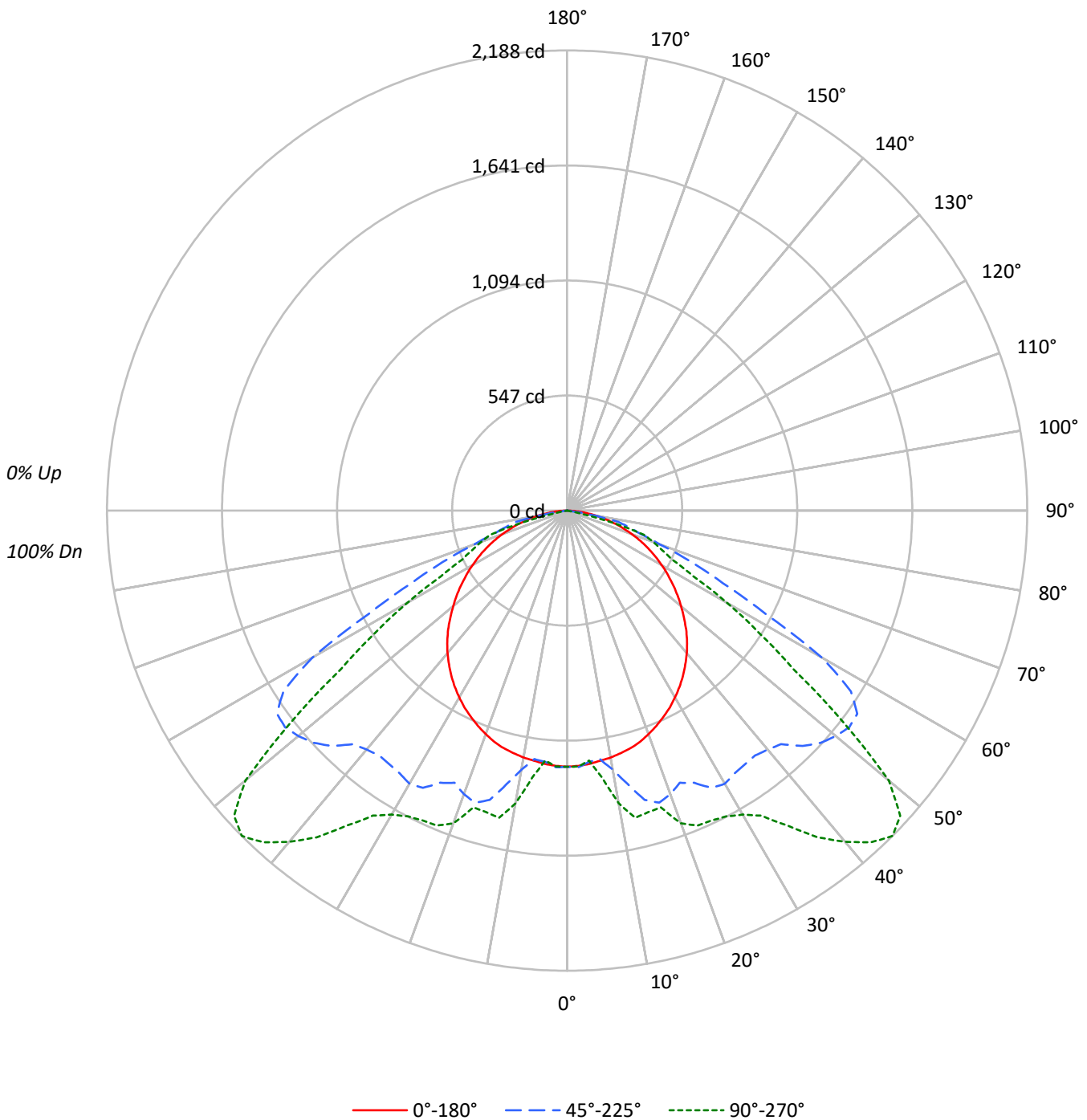
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 5507.0 lumens  
Efficiency: 98.3%  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 2.26 / 2.04  
Luminous Opening: Rectangular (W 1.08' x L: 4.15' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.7  
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	117	117	117	117	114	114	114	114	109	109	109	105	105	105	100	100	100	98
1	107	102	98	94	104	100	96	93	96	93	90	92	90	87	89	87	85	83
2	97	89	82	76	94	87	80	75	83	78	73	80	76	72	77	73	70	68
3	88	77	69	62	85	75	68	62	72	66	60	70	64	59	67	62	58	56
4	80	67	58	52	77	66	58	51	64	56	50	61	55	50	59	54	49	47
5	73	60	50	44	71	58	50	43	56	49	43	54	48	42	52	47	42	40
6	67	53	44	37	65	52	43	37	50	43	37	49	42	36	47	41	36	34
7	61	48	39	32	60	47	38	32	45	37	32	44	37	32	42	36	31	29
8	57	43	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
9	53	39	31	25	51	39	30	25	37	30	25	36	29	25	35	29	24	23
10	49	36	28	22	48	35	28	22	34	27	22	33	27	22	32	26	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2919	2919	2919
5°	2909	2885	2870
10°	2901	3042	3439
15°	2901	3533	3685
20°	2885	3660	4035
25°	2864	3776	4297
30°	2839	4151	4619
35°	2809	4310	5351
40°	2769	4640	6429
45°	2712	5365	7416
50°	2636	6219	7446
55°	2566	7037	5482
60°	2493	6720	4223
65°	2410	4633	3113
70°	2298	3279	3034
75°	2130	2778	2111
80°	1891	1615	97
85°	1650	330	55



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	117.1	2.1	2.1	0°	1218	1218	1218	1218	1218	
10°-20°	380.6	6.9	6.8	5°	1209	1214	1199	1188	1193	115
20°-30°	654.2	11.9	11.7	15°	1169	1168	1424	1479	1485	330
30°-40°	912.6	16.6	16.3	25°	1083	1272	1428	1594	1625	499
40°-50°	1197.3	21.7	21.4	35°	960	1200	1473	1686	1829	600
50°-60°	1145.8	20.8	20.5	45°	800	1144	1583	2048	2188	616
60°-70°	731.2	13.3	13.1	55°	614	984	1684	1504	1312	549
70°-80°	331.3	6.0	5.9	65°	425	958	817	590	549	420
80°-90°	36.9	0.7	0.7	75°	230	440	300	286	228	244
90°-100°	0.0	0.0	0.0	85°	60	61	12	2	2	65
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°	1151.9	20.9	20.6	165°	0	0	0	0	0	0
0°-40°	2064.5	37.5	36.9	175°	0	0	0	0	0	0
0°-60°	4407.6	80.0	78.7	180°	0	0	0	0	0	0
0°-90°	5507.0	100.0	98.3							
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°	5507.0	100.0	98.3							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1218	1218	1218	1218	1218
2.5°	1215	1216	1222	1218	1218
5°	1209	1214	1199	1188	1193
7.5°	1200	1199	1192	1250	1281
10°	1192	1173	1250	1364	1413
12.5°	1181	1159	1333	1474	1496
15°	1169	1168	1424	1479	1485
17.5°	1153	1189	1456	1449	1479
20°	1131	1214	1435	1506	1582
22.5°	1108	1244	1401	1581	1621
25°	1083	1272	1428	1594	1625
27.5°	1056	1294	1486	1597	1639
30°	1026	1281	1500	1607	1669
32.5°	994	1249	1482	1641	1720
35°	960	1200	1473	1686	1829
37.5°	923	1160	1468	1804	1958
40°	885	1147	1483	1900	2055
42.5°	844	1148	1506	1983	2139
45°	800	1144	1583	2048	2188
47.5°	753	1113	1634	2080	2148
50°	707	1063	1668	2020	1997
52.5°	661	1020	1691	1851	1661
55°	614	984	1684	1504	1312
57.5°	567	968	1600	1189	1082
60°	520	974	1402	975	881
62.5°	472	989	1065	779	677
65°	425	958	817	590	549
67.5°	377	918	640	496	487
70°	328	852	468	426	433
72.5°	279	687	362	380	382
75°	230	440	300	286	228
77.5°	182	291	250	109	58
80°	137	180	117	10	7
82.5°	95	126	24	5	4
85°	60	61	12	2	2
87.5°	28	22	5	1	1
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)