

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: 102P119

Luminaire Tested: **IAF-SS-132**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 102P119
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: IAF-SS-132
Description: IAF Series Industrial Luminaire with a Silver
Insert under the lamp.
Light Source: One - F032/35K - 2800 Lumens - 32 Watts
Ballast/Driver: Motorola M1-IN-T8-GP-D-120 Electronic - L.O.B.F. = 87.5%

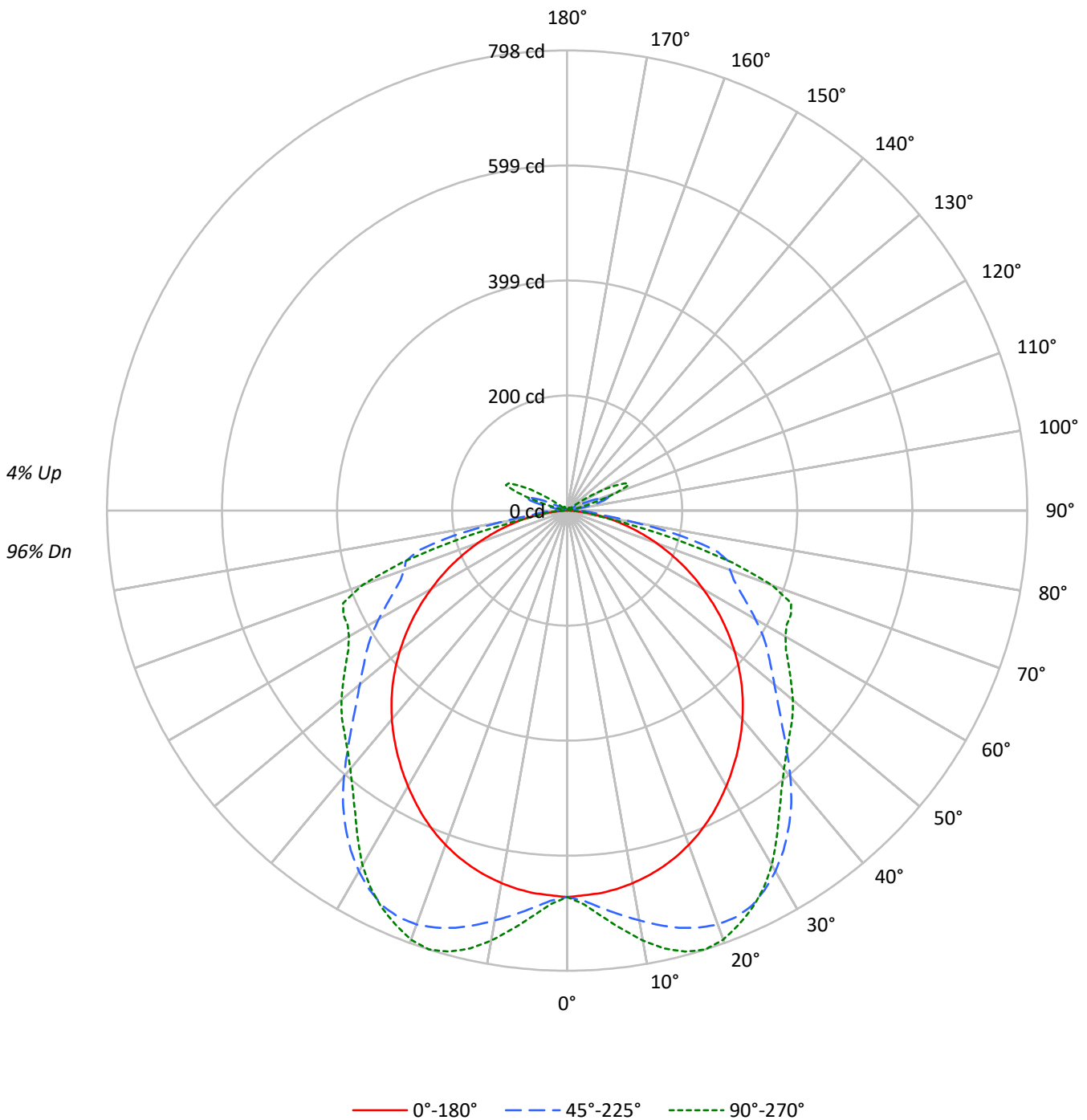
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 2482.2 lumens
Efficiency: 88.6%
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.45 / 1.49
Luminous Opening: Rectangular w/ Sides (W: 0.93' x L: 4' x H: 0.22')
CIE Type: Direct

Input Watts (W): 30
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	105	105	105	105	102	102	102	102	96	96	96	92	92	92	87	87	87	85
1	95	91	87	83	92	88	85	81	84	81	78	80	77	75	76	74	72	70
2	86	78	72	67	83	76	71	66	73	68	64	69	65	62	66	63	60	57
3	78	68	61	55	75	67	60	54	63	58	53	61	56	51	58	54	50	48
4	71	60	52	46	69	59	51	46	56	50	45	54	48	44	51	46	43	40
5	65	54	45	39	63	52	45	39	50	43	38	48	42	38	46	41	37	35
6	60	48	40	34	58	47	40	34	45	38	33	43	37	33	42	36	32	30
7	56	44	36	30	54	43	35	30	41	34	29	39	33	29	38	33	28	27
8	52	40	32	27	50	39	32	27	37	31	26	36	30	26	35	29	25	24
9	48	36	29	24	47	36	29	24	34	28	23	33	27	23	32	27	23	21
10	45	33	26	22	44	33	26	22	32	26	21	31	25	21	30	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1939	1939	1939
5°	1925	1974	2012
10°	1909	2046	2135
15°	1889	2126	2231
20°	1862	2188	2245
25°	1828	2203	2186
30°	1787	2157	2087
35°	1748	2068	1942
40°	1707	1939	1843
45°	1660	1789	1807
50°	1601	1696	1794
55°	1528	1654	1770
60°	1440	1608	1794
65°	1337	1569	1944
70°	1210	1622	1934
75°	1049	1684	1188
80°	826	916	406
85°	410	446	269



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	66.6	2.7	2.4	0°	670	670	670	670	670	
10°-20°	207.8	8.4	7.4	5°	666	675	692	704	707	63
20°-30°	331.1	13.3	11.8	15°	640	690	749	785	792	180
30°-40°	397.3	16.0	14.2	25°	587	686	756	763	760	270
40°-50°	405.5	16.3	14.5	35°	514	646	670	650	641	321
50°-60°	379.2	15.3	13.5	45°	428	545	527	536	546	330
60°-70°	328.8	13.2	11.7	55°	327	416	424	457	469	292
70°-80°	211.9	8.5	7.6	65°	218	273	330	396	428	216
80°-90°	51.3	2.1	1.8	75°	113	171	267	227	200	120
90°-100°	13.0	0.5	0.5	85°	20	63	45	32	30	26
100°-110°	33.7	1.4	1.2	90°	1	30	20	8	6	1
110°-120°	41.4	1.7	1.5	95°	0	18	14	6	4	0
120°-130°	7.8	0.3	0.3	105°	0	7	65	37	27	0
130°-140°	3.1	0.1	0.1	115°	0	4	24	90	112	0
140°-150°	2.1	0.1	0.1	125°	0	2	4	6	18	0
150°-160°	0.9	0.0	0.0	135°	1	1	6	6	5	0
160°-170°	0.4	0.0	0.0	145°	1	1	2	6	8	0
170°-180°	0.1	0.0	0.0	155°	1	1	2	3	3	0
0°-30°	605.5	24.4	21.6	165°	1	1	2	2	2	0
0°-40°	1002.8	40.4	35.8	175°	1	1	1	2	2	0
0°-60°	1787.5	72.0	63.8	180°	1	1	1	1	1	
0°-90°	2379.6	95.9	85.0							
90°-120°	88.2	3.6	3.2							
90°-150°	101.2	4.1	3.6							
90°-180°	103.0	4.1	3.7							
0°-180°	2482.2	100.0	88.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	670.1	670.1	670.1	670.1	670.1
2.5°	667.8	670.8	677.3	682.6	683.5
5°	665.8	675.4	691.9	704.4	707.2
7.5°	661.8	680.4	706.8	727.0	732.3
10°	656.0	684.7	721.8	748.5	756.9
12.5°	648.7	688.1	736.2	769.3	777.8
15°	639.8	690.5	749.0	785.0	791.8
17.5°	629.2	691.9	758.4	792.6	797.9
20°	616.8	691.6	763.8	790.7	791.7
22.5°	603.0	689.8	763.3	779.5	777.3
25°	587.2	686.5	756.5	763.4	760.1
27.5°	570.2	680.8	741.9	742.6	737.8
30°	551.9	672.1	722.3	717.4	710.0
32.5°	533.2	660.7	698.3	686.4	675.7
35°	513.8	645.5	670.1	649.9	640.8
37.5°	493.8	625.9	638.7	614.6	610.4
40°	472.8	602.6	602.2	583.0	584.8
42.5°	450.9	575.5	563.5	557.1	563.5
45°	427.9	545.3	527.4	536.2	545.9
47.5°	403.9	514.0	495.8	518.3	530.0
50°	378.9	482.3	469.3	501.3	511.0
52.5°	353.1	449.8	445.5	480.0	489.5
55°	326.6	416.0	424.3	456.9	469.3
57.5°	299.6	379.1	402.2	435.9	450.0
60°	272.6	340.8	377.1	416.7	437.1
62.5°	245.4	304.6	352.7	403.8	429.3
65°	218.3	272.8	330.5	396.5	428.0
67.5°	191.2	244.5	312.4	394.9	420.6
70°	164.7	220.1	300.4	375.8	377.1
72.5°	138.5	195.2	293.7	322.6	300.0
75°	113.1	171.1	266.6	226.9	200.0
77.5°	88.6	152.1	203.1	132.8	110.4
80°	65.0	139.3	119.2	68.1	57.0
82.5°	41.4	113.0	62.7	43.4	41.8
85°	20.1	63.2	45.1	32.3	30.0
87.5°	6.6	43.5	32.5	17.5	14.1
90°	0.6	29.9	20.3	7.9	5.6
92.5°	0.1	20.9	15.8	5.7	4.2
95°	0.0	18.3	13.8	5.5	4.3
97.5°	0.0	27.9	12.1	5.1	4.3
100°	0.1	32.0	19.0	5.2	4.3
102.5°	0.1	21.4	40.5	13.8	8.3
105°	0.1	6.7	64.9	37.3	27.1
107.5°	0.2	3.2	74.4	69.4	59.2
110°	0.1	3.1	62.8	96.8	91.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.2	3.4	46.2	104.7	115.2
115°	0.2	4.0	23.6	89.9	111.9
117.5°	0.3	4.3	6.8	71.3	93.8
120°	0.3	3.9	3.8	46.2	72.6
122.5°	0.3	2.7	3.6	20.0	44.5
125°	0.3	1.7	4.2	6.5	17.5
127.5°	0.4	1.5	4.9	4.2	5.9
130°	0.5	1.4	5.8	4.2	4.2
132.5°	0.5	1.4	6.9	4.9	4.2
135°	0.6	1.4	6.5	5.7	5.1
137.5°	0.6	1.4	5.4	6.8	5.9
140°	0.6	1.3	3.5	8.1	7.1
142.5°	0.7	1.3	2.3	7.6	8.2
145°	0.7	1.3	2.2	6.3	7.7
147.5°	0.8	1.3	2.1	4.1	6.1
150°	0.8	1.3	2.0	2.8	3.7
152.5°	0.9	1.3	2.0	2.7	2.7
155°	0.9	1.3	1.9	2.6	2.7
157.5°	0.9	1.3	1.8	2.5	2.4
160°	1.0	1.3	1.7	2.3	2.3
162.5°	1.0	1.3	1.6	2.2	2.1
165°	1.0	1.2	1.5	2.0	2.0
167.5°	1.1	1.1	1.4	1.9	1.8
170°	1.1	1.1	1.3	1.7	1.7
172.5°	1.1	1.1	1.2	1.6	1.6
175°	1.1	1.1	1.2	1.5	1.5
177.5°	1.2	1.1	1.1	1.4	1.4
180°	1.2	1.2	1.2	1.2	1.2

(END OF REPORT)