

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: 11198

Luminaire Tested: **DIM-332**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 11198
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: DIM-332
Description: WHITE PAINTED INTERIOR WITH OPEN BOTTOM

Light Source: THREE 32 WATT FLUORESCENT LAMPS

FO32/41K. LUMEN RATING = 2900 LMS.

Ballast/Driver: -

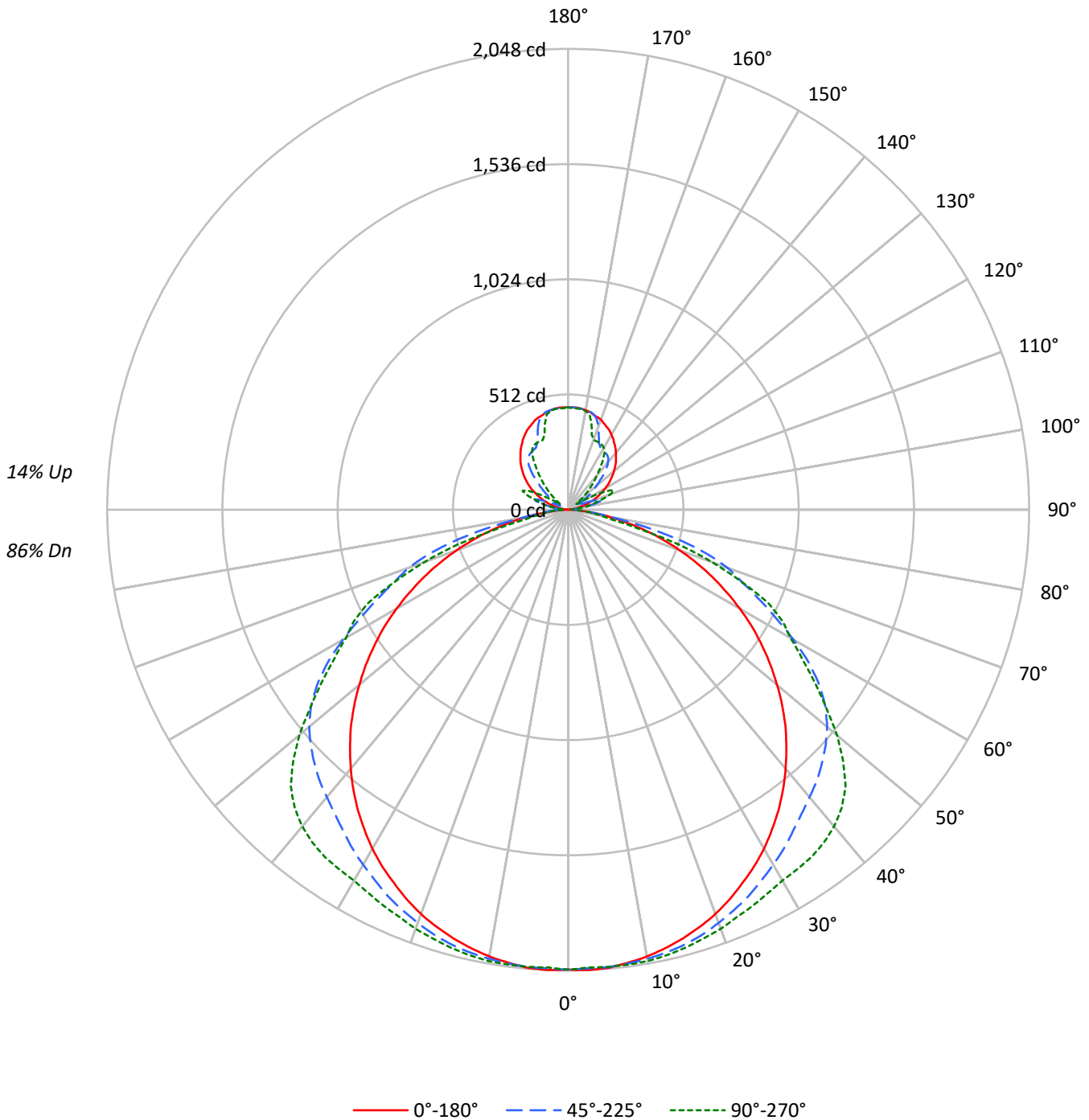
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 7590.1 lumens
Efficiency: 87.2%
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.42 / 1.5
Luminous Opening: Rectangular (W 1.06' x L: 3.96' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 92.2
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	101	101	101	101	97	97	97	97	90	90	90	84	84	84	78	78	78	75
1	92	88	84	81	88	85	81	78	79	76	74	73	71	69	68	67	65	63
2	83	76	70	65	80	74	68	64	69	64	60	64	60	57	60	57	54	52
3	76	67	60	54	73	64	58	53	60	55	50	56	52	48	52	49	45	43
4	69	59	51	45	66	57	50	44	53	47	42	50	45	41	46	42	39	36
5	63	52	44	39	61	51	43	38	47	41	36	44	39	35	42	37	33	31
6	58	47	39	33	56	45	38	33	43	36	32	40	34	30	37	33	29	27
7	54	42	35	29	52	41	34	29	39	32	28	36	31	27	34	29	26	24
8	50	38	31	26	48	37	30	25	35	29	25	33	28	24	31	26	23	21
9	47	35	28	23	45	34	27	23	32	26	22	30	25	21	29	24	21	19
10	44	32	25	21	42	31	25	21	30	24	20	28	23	19	27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5241	5241	5241
5°	5261	5252	5249
10°	5250	5276	5303
15°	5235	5312	5349
20°	5218	5332	5409
25°	5180	5361	5493
30°	5152	5396	5635
35°	5101	5454	5898
40°	5031	5583	6151
45°	4950	5782	6319
50°	4833	5990	6218
55°	4697	6096	5973
60°	4517	5928	5849
65°	4284	5644	5944
70°	3953	5637	5086
75°	3480	4950	3155
80°	2812	3036	2118
85°	1877	2469	2101



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	194.3	2.6	2.2	0°	2044	2044	2044	2044	2044	
10°-20°	564.0	7.4	6.5	5°	2044	2042	2040	2037	2039	194
20°-30°	872.7	11.5	10.0	15°	1972	1982	2001	2010	2015	557
30°-40°	1097.8	14.5	12.6	25°	1831	1862	1895	1921	1941	845
40°-50°	1210.7	16.0	13.9	35°	1630	1672	1742	1836	1884	1019
50°-60°	1131.4	14.9	13.0	45°	1365	1431	1594	1721	1742	1052
60°-70°	894.0	11.8	10.3	55°	1051	1162	1364	1346	1336	939
70°-80°	461.6	6.1	5.3	65°	706	900	930	980	980	697
80°-90°	101.8	1.3	1.2	75°	351	508	500	378	318	374
90°-100°	39.1	0.5	0.4	85°	64	96	84	74	71	79
100°-110°	111.0	1.5	1.3	90°	5	33	27	22	18	5
110°-120°	118.3	1.6	1.4	95°	9	43	22	20	18	14
120°-130°	117.0	1.5	1.3	105°	71	26	148	142	130	76
130°-140°	162.7	2.1	1.9	115°	150	103	41	155	203	149
140°-150°	188.2	2.5	2.2	125°	228	197	112	57	43	205
150°-160°	163.9	2.2	1.9	135°	299	241	223	160	138	231
160°-170°	118.6	1.6	1.4	145°	358	316	299	286	268	224
170°-180°	43.1	0.6	0.5	155°	406	402	325	322	329	187
0°-30°	1630.9	21.5	18.7	165°	436	439	439	419	398	124
0°-40°	2728.7	36.0	31.4	175°	455	454	454	452	452	43
0°-60°	5070.9	66.8	58.3	180°	455	455	455	455	455	
0°-90°	6528.3	86.0	75.0							
90°-120°	268.4	3.5	3.1							
90°-150°	736.2	9.7	8.5							
90°-180°	1062.0	14.0	12.2							
0°-180°	7590.1	100.0	87.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.9	2043.9	2043.9	2043.9	2043.9
2.5°	2047.8	2047.8	2040.2	2036.4	2036.4
5°	2044.0	2041.6	2040.5	2036.7	2039.2
7.5°	2031.2	2032.9	2034.0	2035.0	2038.8
10°	2016.3	2018.7	2026.4	2034.0	2036.4
12.5°	1995.9	2004.9	2016.0	2023.6	2027.7
15°	1972.0	1981.7	2001.1	2009.8	2014.9
17.5°	1944.0	1956.5	1980.7	1992.1	1998.3
20°	1912.2	1929.9	1954.1	1971.7	1982.1
22.5°	1874.2	1899.4	1926.0	1945.4	1959.3
25°	1830.9	1861.7	1894.6	1921.2	1941.3
27.5°	1788.0	1819.5	1857.9	1896.0	1921.2
30°	1740.0	1774.2	1822.3	1873.1	1903.2
32.5°	1685.3	1724.7	1784.6	1852.7	1894.2
35°	1629.6	1671.5	1742.4	1836.1	1884.2
37.5°	1567.7	1616.8	1703.3	1821.2	1865.2
40°	1503.0	1557.7	1667.7	1794.3	1837.5
42.5°	1434.5	1493.0	1634.8	1761.8	1798.1
45°	1365.0	1430.7	1594.3	1720.9	1742.4
47.5°	1290.3	1363.6	1551.1	1648.6	1657.6
50°	1211.4	1296.5	1501.6	1570.1	1558.7
52.5°	1132.9	1229.4	1440.8	1462.6	1443.5
55°	1050.6	1162.3	1363.6	1346.0	1336.0
57.5°	968.3	1099.0	1268.5	1234.6	1231.9
60°	880.8	1036.8	1155.8	1131.9	1140.5
62.5°	792.2	973.5	1038.2	1042.0	1073.4
65°	706.1	900.1	930.2	979.7	979.7
67.5°	616.2	821.3	832.7	866.9	830.3
70°	527.3	726.2	751.8	713.7	678.4
72.5°	440.1	618.9	641.4	557.7	514.8
75°	351.2	508.3	499.6	377.9	318.4
77.5°	267.9	406.9	345.0	201.8	186.6
80°	190.4	315.9	205.6	145.1	143.4
82.5°	120.9	199.4	124.3	113.3	108.1
85°	63.8	95.6	83.9	73.8	71.4
87.5°	23.0	54.8	48.6	30.6	32.0
90°	5.0	33.4	26.8	21.6	17.8
92.5°	2.6	26.8	20.6	17.8	15.7
95°	9.1	43.4	21.9	19.5	18.1
97.5°	21.9	67.6	63.5	49.6	32.0
100°	35.8	71.1	82.8	81.4	81.4
102.5°	52.4	47.2	115.7	114.3	112.9
105°	71.4	25.7	148.5	142.3	129.5
107.5°	91.5	38.2	156.1	172.8	166.2
110°	111.9	57.2	117.1	194.2	200.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	130.9	78.7	75.2	184.2	219.4
115°	149.9	102.9	41.0	154.8	203.2
117.5°	170.0	125.7	39.6	109.5	153.7
120°	190.7	151.0	62.4	73.8	101.8
122.5°	210.8	180.4	86.6	58.6	62.4
125°	228.4	196.6	111.9	57.2	43.4
127.5°	247.5	212.2	137.1	80.4	58.6
130°	265.1	222.2	162.7	105.6	85.2
132.5°	282.7	229.5	190.4	132.3	113.3
135°	299.3	241.2	223.3	160.0	138.5
137.5°	314.6	253.7	253.7	189.4	168.9
140°	329.8	274.1	275.5	219.8	199.4
142.5°	345.0	296.9	291.7	255.1	231.2
145°	357.8	315.9	299.3	285.5	267.5
147.5°	372.7	340.2	303.2	305.6	300.4
150°	384.4	364.0	307.0	314.6	317.0
152.5°	396.9	384.4	310.8	318.4	324.9
155°	405.9	402.1	324.6	322.2	328.7
157.5°	414.9	413.5	355.4	323.2	328.7
160°	426.3	424.9	392.0	333.6	329.8
162.5°	431.1	432.5	422.1	370.3	348.8
165°	436.3	438.7	439.1	418.7	398.3
167.5°	445.0	442.5	446.3	436.3	434.9
170°	449.1	447.7	449.1	446.3	445.0
172.5°	452.9	449.1	451.5	449.1	451.5
175°	455.3	454.0	454.0	451.5	451.5
177.5°	455.3	455.3	455.3	451.5	451.5
180°	454.6	454.6	454.6	454.6	454.6

(END OF REPORT)