

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: 132P105

Luminaire Tested: **2M-332R25-A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P105
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2M-332R25-A
Description: 2 X 4 Surface Modular with a .125" thick linear
ribbed lens. Linear prisms run parallel to lamps,
prisms inverted (towards lamp cavity).
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

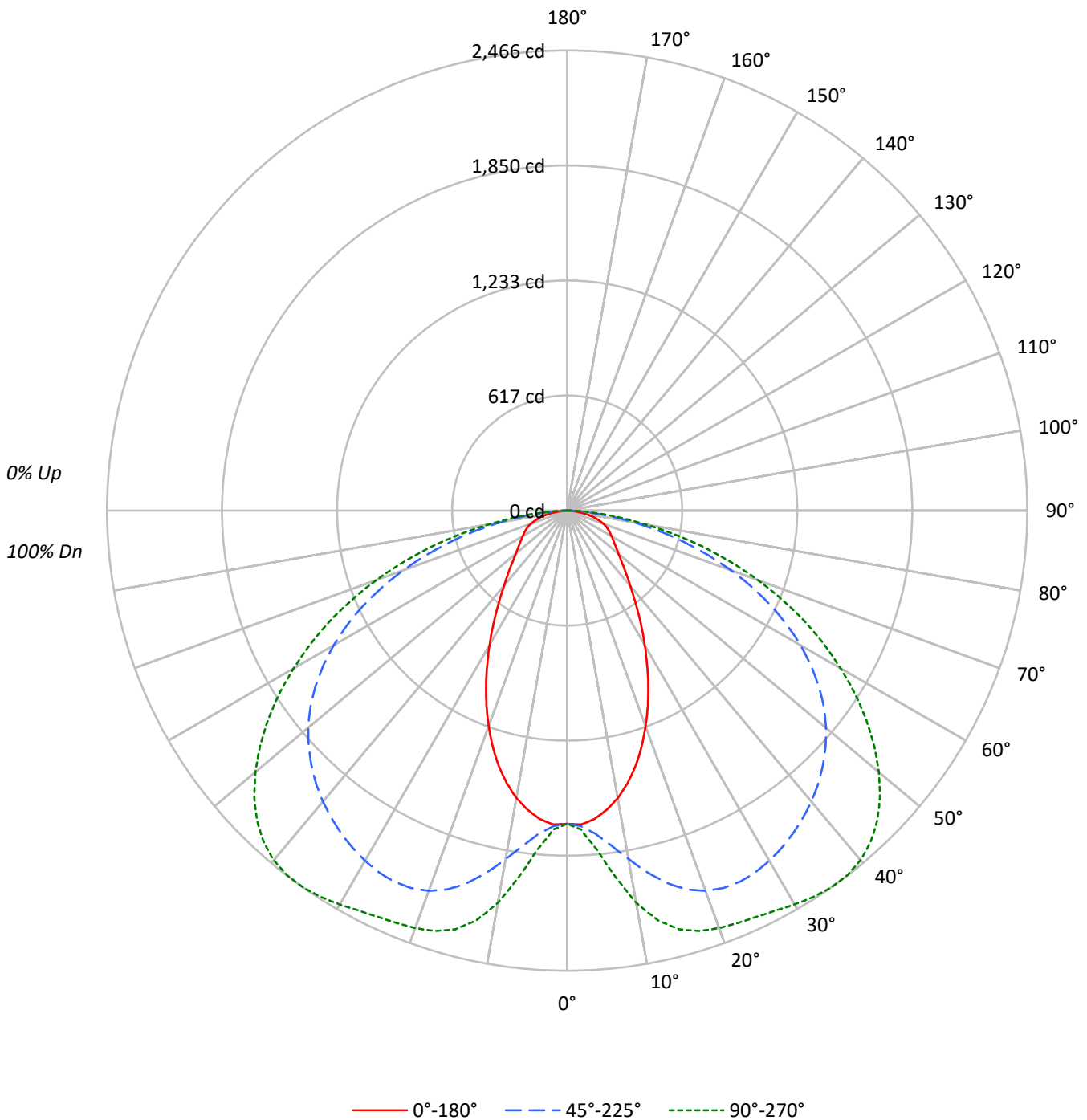
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6990.2 lumens
Efficiency: 80.3%
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 1.99 / 1.8
Luminous Opening: Rectangular (W 1.79' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 90.4
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

TEST NUMBER: 132P105
CATALOG NUMBER: 2M-332R25-A

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	96	96	96	96	93	93	93	93	89	89	89		85	85	85		82	82	82	80
1	87	83	79	76	85	81	78	75	78	75	72		74	72	70		72	70	68	66
2	79	72	66	61	76	70	65	60	67	63	59		65	61	58		62	59	56	54
3	71	62	55	50	69	61	55	50	59	53	49		56	52	48		54	50	47	45
4	65	55	47	42	63	54	47	41	52	46	41		50	45	40		48	43	40	38
5	59	49	41	36	58	48	41	35	46	40	35		44	39	35		43	38	34	32
6	55	44	36	31	53	43	36	31	41	35	30		40	34	30		39	34	30	28
7	51	39	32	27	49	39	32	27	37	31	26		36	30	26		35	30	26	24
8	47	36	29	24	46	35	28	24	34	28	23		33	27	23		32	27	23	22
9	44	33	26	21	43	32	26	21	31	25	21		30	25	21		29	24	21	19
10	41	30	23	19	40	30	23	19	29	23	19		28	23	19		27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2651	2651	2651
5°	2633	2757	2892
10°	2509	3042	3422
15°	2316	3380	3800
20°	2068	3647	4004
25°	1792	3825	4188
30°	1516	3954	4446
35°	1275	4072	4757
40°	1085	4200	5045
45°	959	4328	5251
50°	882	4452	5361
55°	857	4540	5391
60°	869	4563	5347
65°	912	4505	5249
70°	956	4306	5017
75°	952	3938	4621
80°	846	3267	3885
85°	562	2248	2774



TEST NUMBER: 132P105
 CATALOG NUMBER: 2M-332R25-A

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	170.3	2.4	2.0	0°	1678	1678	1678	1678	1678	
10°-20°	554.4	7.9	6.4	5°	1660	1677	1738	1798	1823	155
20°-30°	905.2	12.9	10.4	15°	1416	1649	2066	2271	2323	395
30°-40°	1168.3	16.7	13.4	25°	1028	1588	2194	2347	2402	471
40°-50°	1300.1	18.6	14.9	35°	661	1433	2111	2357	2466	415
50°-60°	1234.3	17.7	14.2	45°	429	1175	1937	2251	2350	334
60°-70°	971.0	13.9	11.2	55°	311	856	1648	1897	1957	280
70°-80°	555.7	7.9	6.4	65°	244	545	1205	1362	1404	241
80°-90°	130.9	1.9	1.5	75°	156	275	645	730	757	162
90°-100°	0.0	0.0	0.0	85°	31	51	124	145	153	39
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	1
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°	1629.9	23.3	18.7	165°	0	0	0	0	0	0
0°-40°	2798.2	40.0	32.2	175°	0	0	0	0	0	0
0°-60°	5332.6	76.3	61.3	180°	0	0	0	0	0	0
0°-90°	6990.2	100.0	80.3							
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°	6990.2	100.0	80.3							



TEST NUMBER: 132P105
 CATALOG NUMBER: 2M-332R25-A

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678	1678	1678	1678	1678
2.5°	1684	1682	1692	1704	1711
5°	1660	1677	1738	1798	1823
7.5°	1618	1671	1810	1932	1979
10°	1564	1664	1896	2073	2133
12.5°	1496	1657	1986	2190	2249
15°	1416	1649	2066	2271	2323
17.5°	1327	1639	2128	2316	2362
20°	1230	1626	2169	2338	2381
22.5°	1130	1610	2189	2346	2392
25°	1028	1588	2194	2347	2402
27.5°	927	1559	2185	2349	2417
30°	831	1524	2167	2352	2437
32.5°	742	1482	2142	2356	2455
35°	661	1433	2111	2357	2466
37.5°	588	1378	2075	2350	2464
40°	526	1316	2036	2332	2446
42.5°	474	1249	1990	2300	2408
45°	429	1175	1937	2251	2350
47.5°	390	1099	1878	2185	2274
50°	359	1019	1811	2104	2181
52.5°	333	938	1735	2008	2074
55°	311	856	1648	1897	1957
57.5°	292	774	1551	1776	1830
60°	275	696	1444	1645	1692
62.5°	260	619	1329	1508	1552
65°	244	545	1205	1362	1404
67.5°	227	474	1072	1211	1247
70°	207	406	932	1054	1086
72.5°	183	339	790	893	922
75°	156	275	645	730	757
77.5°	126	212	504	568	587
80°	93	152	359	411	427
82.5°	61	97	232	269	279
85°	31	51	124	145	153
87.5°	9	17	45	57	62
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



TEST NUMBER: 132P105
CATALOG NUMBER: 2M-332R25-A

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)