

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: 132P106

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 132P106
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2M-332R25-B
Description: 2 X 4 Surface Modular with a .125" thick linear
ribbed lens. Linear prisms run perpendicular to
lamps, prisms inverted (towards lamp cavity).
Light Source: Three-F32T8/35K - 2900 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad-Utrad B332I120RH Electronic

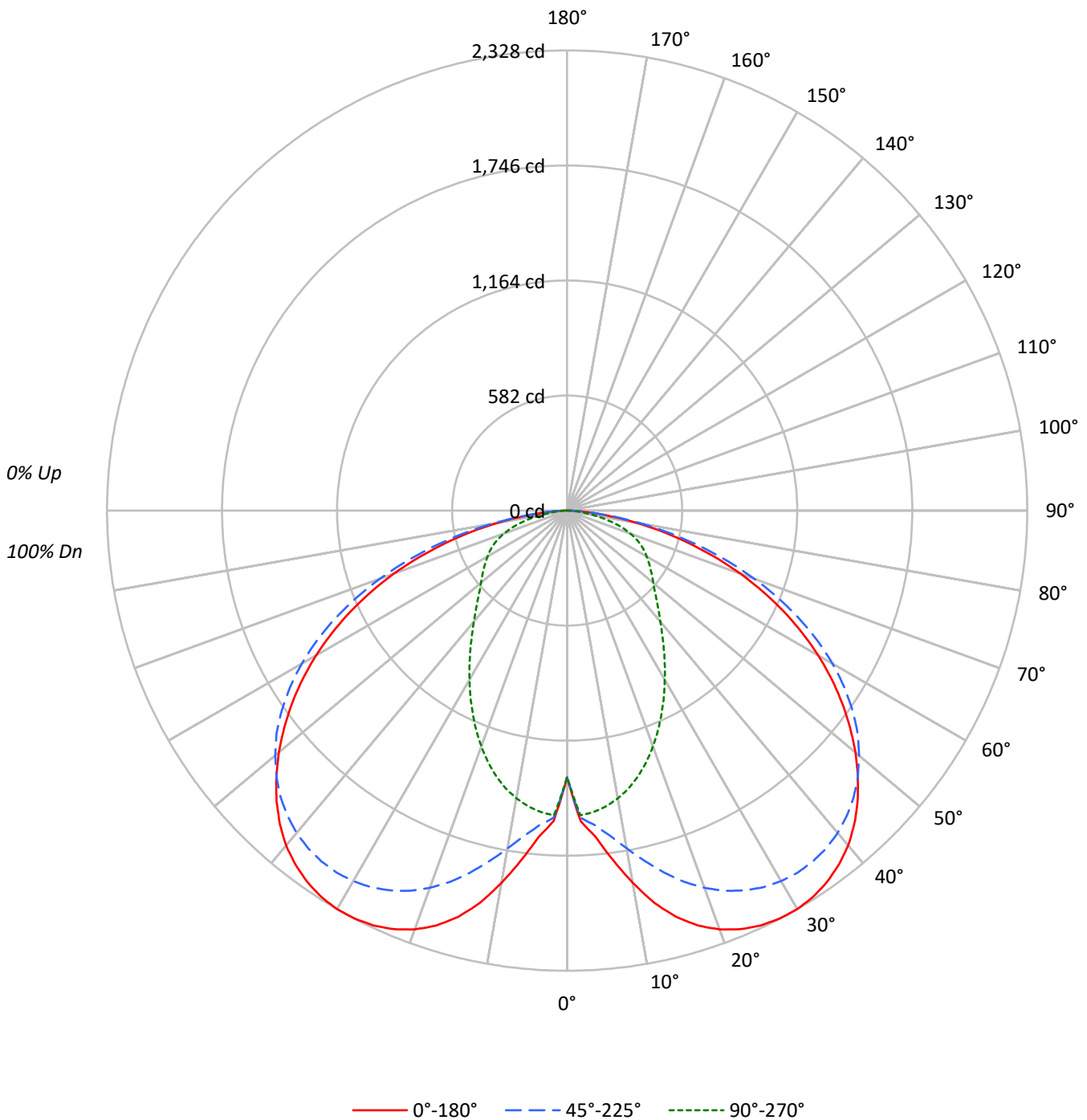
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 7012.1 lumens
Efficiency: 80.6%
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 2.09 / 1.11 / 1.97
Luminous Opening: Rectangular (W 1.79' x L: 3.8' x H: 0')
CIE Type: Direct

Input Watts (W): 90.6
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	96	96	96	96	94	94	94	94	90	90	90		86	86	86		82	82	82	81
1	87	83	79	76	85	81	78	75	78	75	72		75	72	70		72	70	68	66
2	79	72	66	61	76	70	65	60	67	63	59		64	61	57		62	59	56	54
3	71	62	55	50	69	61	54	49	58	53	48		56	51	47		54	50	47	45
4	65	55	47	41	63	54	47	41	51	45	41		50	44	40		48	43	39	38
5	59	48	41	35	58	47	40	35	46	39	34		44	38	34		43	38	34	32
6	54	43	36	30	53	42	35	30	41	35	30		40	34	29		38	33	29	27
7	50	39	32	26	49	38	31	26	37	31	26		36	30	26		35	30	26	24
8	47	35	28	23	45	35	28	23	34	27	23		33	27	23		32	26	23	21
9	43	32	25	21	42	32	25	21	31	25	20		30	24	20		29	24	20	19
10	41	30	23	19	40	29	23	18	28	22	18		28	22	18		27	22	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2132	2132	2132
5°	2630	2533	2428
10°	3068	2784	2371
15°	3479	3102	2274
20°	3792	3415	2134
25°	4038	3696	1972
30°	4248	3950	1801
35°	4423	4180	1643
40°	4563	4391	1514
45°	4646	4581	1430
50°	4680	4739	1399
55°	4680	4854	1419
60°	4636	4901	1469
65°	4524	4849	1540
70°	4310	4652	1575
75°	3895	4243	1508
80°	3203	3503	1274
85°	2139	2266	888



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.7	2.2	1.8	0°	1349	1349	1349	1349	1349	
10°-20°	517.7	7.4	6.0	5°	1658	1653	1597	1549	1531	166
20°-30°	887.9	12.7	10.2	15°	2127	2069	1896	1575	1390	603
30°-40°	1174.3	16.7	13.5	25°	2316	2289	2120	1565	1131	1069
40°-50°	1311.6	18.7	15.1	35°	2293	2301	2167	1469	852	1434
50°-60°	1257.8	17.9	14.5	45°	2079	2126	2050	1274	640	1600
60°-70°	1002.4	14.3	11.5	55°	1699	1762	1762	1008	515	1516
70°-80°	572.9	8.2	6.6	65°	1210	1267	1297	693	412	1194
80°-90°	131.8	1.9	1.5	75°	638	672	695	361	247	674
90°-100°	0.0	0.0	0.0	85°	118	133	125	68	49	147
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	6
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°	1561.4	22.3	17.9	165°	0	0	0	0	0	0
0°-40°	2735.7	39.0	31.4	175°	0	0	0	0	0	0
0°-60°	5305.1	75.7	61.0	180°	0	0	0	0	0	0
0°-90°	7012.1	100.0	80.6							
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°	7012.1	100.0	80.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1349	1349	1349	1349	1349
2.5°	1572	1586	1555	1545	1543
5°	1658	1653	1597	1549	1531
7.5°	1784	1750	1659	1556	1509
10°	1912	1860	1735	1563	1478
12.5°	2032	1971	1816	1570	1439
15°	2127	2069	1896	1575	1390
17.5°	2201	2150	1969	1578	1333
20°	2255	2211	2031	1578	1269
22.5°	2292	2257	2082	1574	1202
25°	2316	2289	2120	1565	1131
27.5°	2327	2309	2148	1549	1060
30°	2328	2318	2165	1529	987
32.5°	2317	2315	2171	1502	919
35°	2293	2301	2167	1469	852
37.5°	2258	2276	2153	1429	790
40°	2212	2238	2129	1384	734
42.5°	2151	2188	2094	1332	684
45°	2079	2126	2050	1274	640
47.5°	1995	2052	1994	1213	601
50°	1904	1965	1928	1148	569
52.5°	1804	1868	1853	1080	541
55°	1699	1762	1762	1008	515
57.5°	1587	1648	1662	934	490
60°	1467	1529	1551	856	465
62.5°	1342	1401	1429	775	440
65°	1210	1267	1297	693	412
67.5°	1073	1122	1156	610	379
70°	933	977	1007	526	341
72.5°	784	826	853	443	296
75°	638	672	695	361	247
77.5°	494	522	537	280	193
80°	352	376	385	201	140
82.5°	225	243	244	129	91
85°	118	133	125	68	49
87.5°	42	55	41	25	18
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)