

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: 185P108

Luminaire Tested: **2EP3MX-332S26I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 185P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3MX-332S26I
Description: 2 X 4 Surface Mount Luminaire with a 3" deep 12 cell
semi-specular low iridescent parabolic louver
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

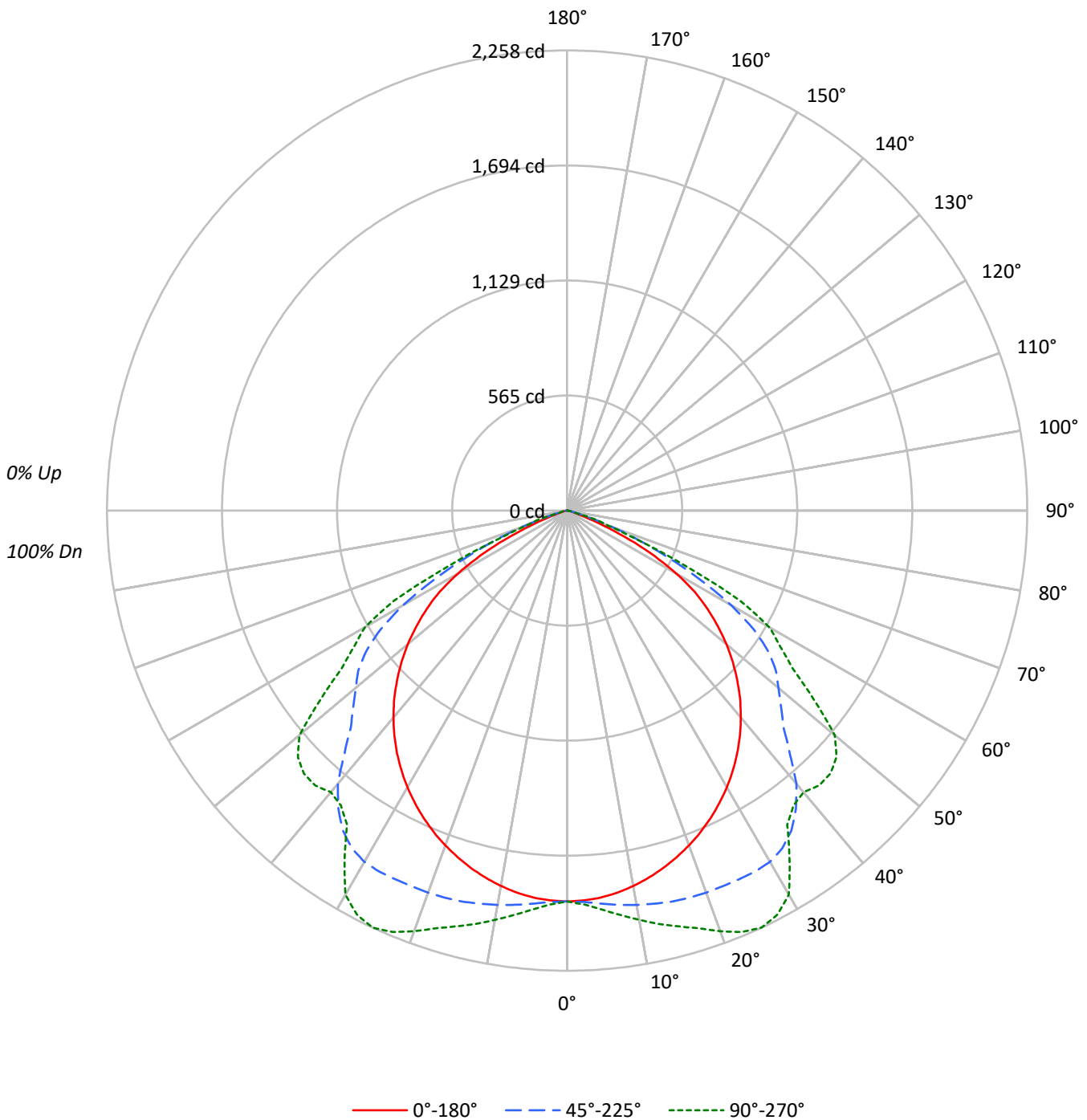
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5599.9 lumens
Efficiency: 66.7%
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.48 / 1.49
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 86.6
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	79	79	79	79	78	78	78	78	74	74	74		71	71	71		68	68	68	67
1	74	71	69	66	72	70	67	65	67	65	63		64	63	61		62	61	60	58
2	68	63	59	55	66	62	58	55	59	56	54		57	55	52		55	53	51	50
3	62	56	51	47	60	55	50	46	53	49	46		51	48	45		49	46	44	43
4	57	49	44	40	55	49	44	40	47	43	39		45	42	39		44	41	38	37
5	52	44	39	34	51	44	38	34	42	37	34		41	37	34		40	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30		37	33	29		36	32	29	28
7	45	36	30	26	44	36	30	26	35	30	26		34	29	26		33	29	26	25
8	42	33	27	24	41	32	27	23	32	27	23		31	26	23		30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	20
10	36	28	23	19	36	27	22	19	27	22	19		26	22	19		26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3184	3184	3184
5°	3176	3226	3274
10°	3152	3312	3437
15°	3123	3413	3629
20°	3088	3524	3879
25°	3050	3656	4136
30°	3005	3814	4171
35°	2948	3887	3816
40°	2873	3792	3909
45°	2772	3521	4287
50°	2637	3494	4426
55°	2434	3487	3907
60°	2058	3094	3808
65°	1332	2168	2494
70°	456	1145	976
75°	186	289	244
80°	105	163	163
85°	76	114	114



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	185.5	3.3	2.2	0°	1918	1918	1918	1918	1918	
10°-20°	560.2	10.0	6.7	5°	1906	1914	1936	1955	1965	181
20°-30°	913.5	16.3	10.9	15°	1817	1880	1986	2075	2112	512
30°-40°	1120.9	20.0	13.3	25°	1665	1796	1996	2185	2258	767
40°-50°	1181.7	21.1	14.1	35°	1455	1657	1918	1906	1883	909
50°-60°	1036.8	18.5	12.3	45°	1181	1443	1500	1681	1826	909
60°-70°	525.3	9.4	6.3	55°	841	1063	1205	1287	1350	745
70°-80°	68.9	1.2	0.8	65°	339	446	552	634	635	337
80°-90°	7.0	0.1	0.1	75°	29	37	45	51	38	39
90°-100°	0.0	0.0	0.0	85°	4	4	6	6	6	5
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1659.3	29.6	19.8	165°	0	0	0	0	0	0
0°-40°	2780.1	49.6	33.1	175°	0	0	0	0	0	0
0°-60°	4998.7	89.3	59.5	180°	0	0	0	0	0	0
0°-90°	5599.9	100.0	66.7							
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°	5599.9	100.0	66.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918	1918	1918	1918	1918
2.5°	1915	1916	1922	1930	1935
5°	1906	1914	1936	1955	1965
7.5°	1891	1911	1951	1986	2002
10°	1870	1904	1965	2017	2039
12.5°	1846	1894	1976	2048	2078
15°	1817	1880	1986	2075	2112
17.5°	1784	1865	1992	2099	2149
20°	1748	1845	1995	2131	2196
22.5°	1709	1822	1995	2164	2238
25°	1665	1796	1996	2185	2258
27.5°	1618	1768	1997	2180	2235
30°	1568	1734	1990	2135	2176
32.5°	1513	1697	1965	2058	2032
35°	1455	1657	1918	1906	1883
37.5°	1392	1613	1844	1773	1824
40°	1326	1563	1750	1715	1804
42.5°	1256	1507	1617	1684	1829
45°	1181	1443	1500	1681	1826
47.5°	1103	1369	1423	1653	1792
50°	1021	1283	1353	1594	1714
52.5°	932	1180	1292	1483	1528
55°	841	1063	1205	1287	1350
57.5°	742	933	1086	1125	1238
60°	620	786	932	1000	1147
62.5°	482	621	740	851	958
65°	339	446	552	634	635
67.5°	195	277	380	384	369
70°	94	135	236	221	201
72.5°	47	65	109	111	146
75°	29	37	45	51	38
77.5°	19	24	27	28	25
80°	11	15	17	19	17
82.5°	7	9	11	12	11
85°	4	4	6	6	6
87.5°	2	2	2	2	2
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)