

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: 14325

Luminaire Tested: **PGX2024-2U3S34I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14325
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: PGX2024-2U3S34I
Description: 20 X 24 RECESSED FLUORESCENT LUMINAIRE

WHITE INTERIOR & 4" DEEP 12 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER

Light Source: TWO GE 40 WATT U - LAMPS

F40CW-U-3-WM. LUMEN RATING = 2300 LMS.

Ballast/Driver: -

Summary

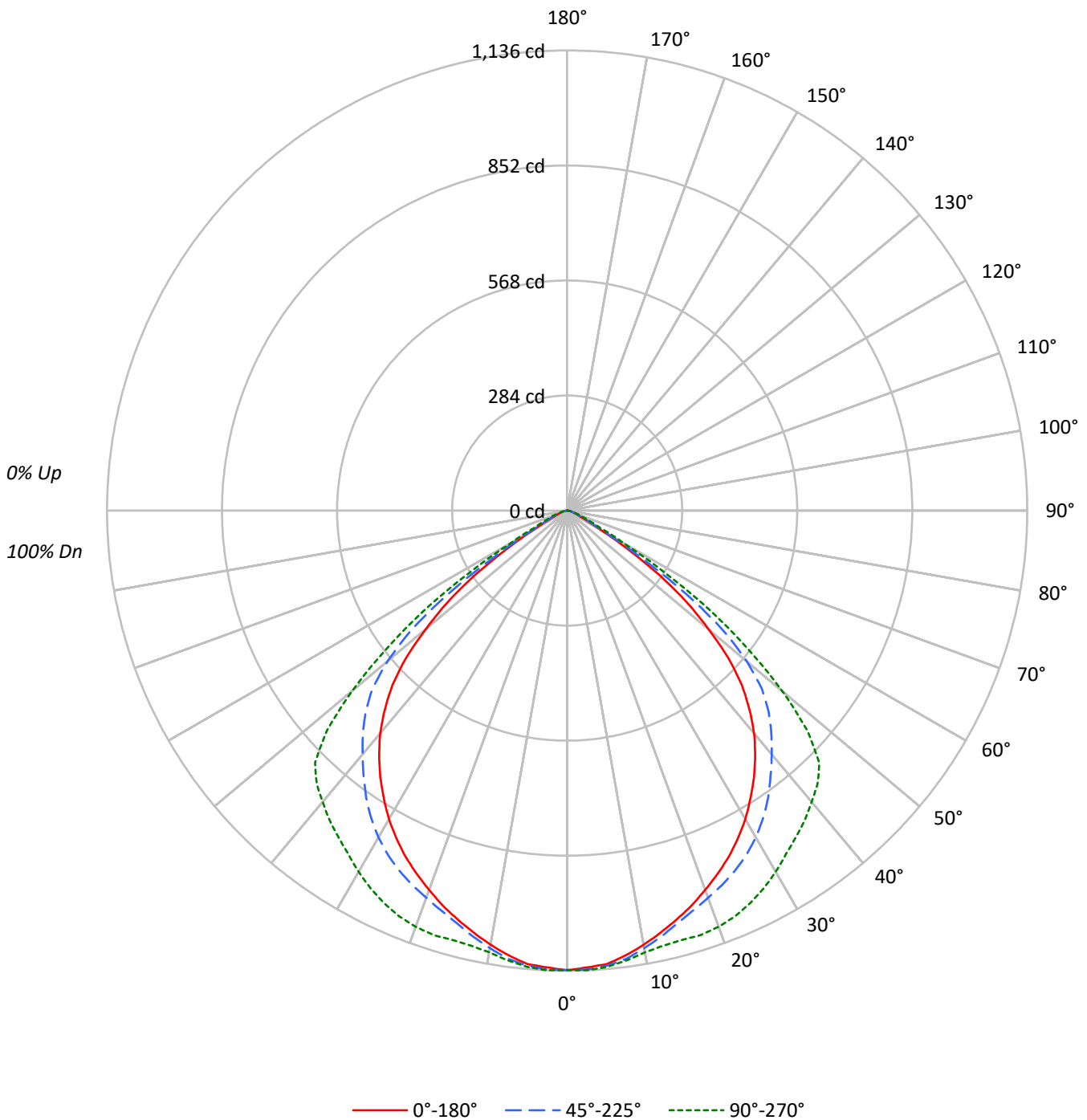
Lumens per Lamp: 2300 (2 lamps)
Luminaire Lumens: 2339.4 lumens
Efficiency: 50.9%
Efficacy: 37.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.35 / 1.34
Luminous Opening: Rectangular (W 1.41' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	61	61	61	61	59	59	59	59	57	57	57	54	54	54	52	52	52	51						51													
1	57	55	53	52	55	54	52	51	52	51	49	50	49	48	48	47	47	46						46													
2	53	49	47	44	52	49	46	44	47	45	43	45	44	42	44	42	41	40						40													
3	49	45	41	38	48	44	41	38	42	40	38	41	39	37	40	38	36	35						35													
4	45	40	36	34	44	40	36	33	38	35	33	37	35	33	36	34	32	31						31													
5	42	36	32	30	41	36	32	29	35	32	29	34	31	29	33	31	29	28						28													
6	39	33	29	26	38	33	29	26	32	28	26	31	28	26	30	28	26	25						25													
7	36	30	26	23	36	30	26	23	29	26	23	28	25	23	28	25	23	22						22													
8	34	28	24	21	33	27	24	21	27	23	21	26	23	21	26	23	21	20						20													
9	32	25	22	19	31	25	22	19	25	21	19	24	21	19	24	21	19	18						18													
10	30	24	20	17	29	23	20	17	23	20	17	22	19	17	22	19	17	16						16													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4949	4949	4949
5°	4920	4937	4951
10°	4820	4859	4905
15°	4719	4760	4954
20°	4625	4721	5075
25°	4540	4721	5146
30°	4431	4692	5188
35°	4282	4607	5242
40°	4090	4473	5346
45°	3766	4339	5430
50°	3093	3931	4707
55°	2122	2730	3314
60°	856	984	1405
65°	397	457	639
70°	272	295	423
75°	224	233	268
80°	178	178	158
85°	180	160	90



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	106.6	4.6	2.3	0°	1134	1134	1134	1134	1134	
10°-20°	300.7	12.9	6.5	5°	1124	1124	1127	1128	1131	106
20°-30°	456.1	19.5	9.9	15°	1045	1046	1054	1082	1097	295
30°-40°	546.6	23.4	11.9	25°	943	939	981	1035	1069	434
40°-50°	545.2	23.3	11.9	35°	804	811	865	924	984	502
50°-60°	309.2	13.2	6.7	45°	610	637	703	790	880	463
60°-70°	56.7	2.4	1.2	55°	279	305	359	383	436	245
70°-80°	15.1	0.6	0.3	65°	38	42	44	55	62	45
80°-90°	3.2	0.1	0.1	75°	13	13	14	14	16	14
90°-100°	0.0	0.0	0.0	85°	4	3	3	2	2	4
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	863.4	36.9	18.8							
0°-40°	1410.0	60.3	30.7							
0°-60°	2264.4	96.8	49.2							
0°-90°	2339.4	100.0	50.9							
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°	2339.4	100.0	50.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1134.4	1134.4	1134.4	1134.4	<i>1134.4</i>
2.5°	<i>1128.8</i>	<i>1130.1</i>	<i>1133.7</i>	<i>1133.7</i>	<i>1135.9</i>
5°	1123.6	1123.9	1127.4	1128.4	<i>1130.6</i>
7.5°	1107.6	1110.3	1116.1	1117.9	<i>1120.4</i>
10°	1088.2	1090.4	1097.0	1103.7	<i>1107.3</i>
12.5°	1067.0	1069.6	1076.3	1092.6	<i>1099.7</i>
15°	1044.9	1045.9	1054.1	1081.6	<i>1097.0</i>
17.5°	1022.0	1021.0	1035.1	1078.1	<i>1098.4</i>
20°	996.3	994.9	1017.0	1069.6	<i>1093.2</i>
22.5°	970.6	968.0	1000.3	1054.2	<i>1083.9</i>
25°	943.3	939.2	980.8	1034.8	<i>1069.2</i>
27.5°	912.8	910.1	958.3	1012.2	<i>1051.1</i>
30°	879.6	878.6	931.4	984.3	<i>1029.9</i>
32.5°	842.4	845.6	900.4	953.8	<i>1005.6</i>
35°	804.0	811.4	865.1	924.2	<i>984.3</i>
37.5°	762.4	774.9	825.2	897.7	<i>963.6</i>
40°	718.3	734.7	785.5	868.1	<i>938.8</i>
42.5°	666.5	689.6	746.2	834.5	<i>915.3</i>
45°	610.4	637.4	703.3	790.3	<i>880.1</i>
47.5°	540.6	574.2	652.4	727.6	<i>804.9</i>
50°	455.7	495.6	579.2	632.1	<i>693.6</i>
52.5°	373.1	404.0	485.3	515.0	<i>565.8</i>
55°	279.0	305.0	359.0	383.3	<i>435.8</i>
57.5°	176.1	202.5	214.4	258.6	<i>290.0</i>
60°	98.1	116.7	112.8	152.5	<i>161.0</i>
62.5°	58.1	63.7	66.4	85.3	<i>92.9</i>
65°	38.5	41.6	44.3	55.4	<i>61.9</i>
67.5°	27.0	28.9	31.9	39.0	<i>43.8</i>
70°	21.3	21.3	23.1	27.4	<i>33.2</i>
72.5°	16.4	16.4	17.8	19.4	<i>22.1</i>
75°	13.3	12.9	13.8	14.3	<i>15.9</i>
77.5°	9.8	8.9	9.8	9.8	<i>10.6</i>
80°	7.1	6.7	7.1	6.2	<i>6.3</i>
82.5°	4.5	4.5	5.0	3.2	<i>3.6</i>
85°	3.6	3.2	3.2	2.2	<i>1.8</i>
87.5°	1.8	1.8	1.0	0.5	<i>1.0</i>
90°	0.5	0.5	0.5	0.5	<i>0.5</i>

(END OF REPORT)