

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: 14315

Luminaire Tested: **P2GX2024-2U1-5/8S33I**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 14315
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: P2GX2024-2U1-5/8S33I
Description: 20X24 RECESSED FLUORESCENT LUMINAIRE WITH WHITE INTERIOR AND 2" DEEP
9 CELL SEMI-SPECULAR LOW IRIDESCENT PARABOLIC LOUVER
Light Source: TWO SYLVANIA 31 WATT 1-5/8 U-LAMPS

FB031/835. LUMEN RATING = 2725 LMS.

Ballast/Driver: -

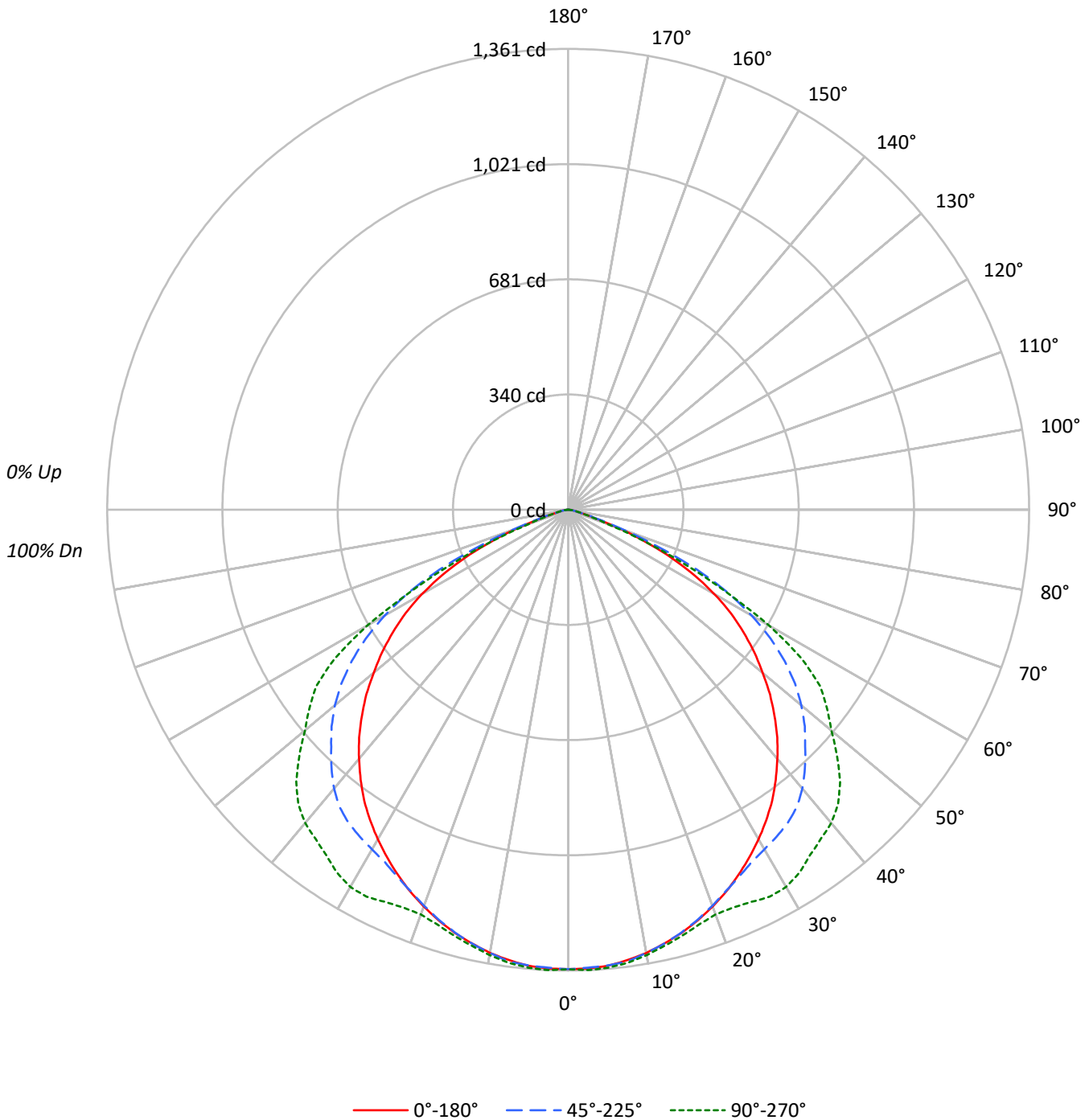
Summary

Lumens per Lamp: 2725 (2 lamps)
Luminaire Lumens: 3656.3 lumens
Efficiency: 67.1%
Efficacy: 64.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.41 / 1.44
Luminous Opening: Rectangular (W 1.4' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 57
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	80	80	80	80	78	78	78	78	75	75	75		71	71	71		68	68	68	67
1	74	71	69	67	72	70	68	66	67	65	63		64	63	62		62	61	60	58
2	68	63	59	55	66	62	58	55	59	56	53		57	55	52		55	53	51	50
3	62	56	51	47	61	55	50	46	53	49	45		51	47	45		49	46	44	42
4	57	49	44	40	55	48	43	39	47	42	39		45	41	38		44	41	38	36
5	52	44	38	34	51	43	38	34	42	37	34		41	36	33		39	36	33	31
6	48	40	34	30	47	39	34	30	38	33	29		37	32	29		36	32	29	28
7	45	36	30	26	44	35	30	26	34	29	26		33	29	26		33	29	26	24
8	42	33	27	23	41	32	27	23	31	27	23		31	26	23		30	26	23	22
9	39	30	25	21	38	30	24	21	29	24	21		28	24	21		27	23	21	19
10	36	28	22	19	36	27	22	19	27	22	19		26	22	19		25	21	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5961	5961	5961
5°	5962	5958	5987
10°	5930	5930	5958
15°	5885	5878	5923
20°	5829	5818	5946
25°	5769	5792	6196
30°	5703	5877	6528
35°	5629	6059	6679
40°	5511	6168	6929
45°	5352	6149	7055
50°	5124	6143	6932
55°	4843	5977	6956
60°	4379	5502	6028
65°	3510	4362	3917
70°	2035	2276	1574
75°	696	737	760
80°	478	417	488
85°	358	257	257



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	128.4	3.5	2.4	0°	1357	1357	1357	1357	1357	
10°-20°	365.5	10.0	6.7	5°	1352	1348	1351	1355	1358	128
20°-30°	562.0	15.4	10.3	15°	1294	1294	1292	1298	1302	365
30°-40°	708.5	19.4	13.0	25°	1190	1183	1195	1249	1278	548
40°-50°	760.8	20.8	14.0	35°	1050	1042	1130	1211	1245	655
50°-60°	681.6	18.6	12.5	45°	861	881	990	1086	1136	663
60°-70°	377.8	10.3	6.9	55°	632	686	780	854	908	563
70°-80°	64.0	1.8	1.2	65°	338	385	420	379	377	328
80°-90°	7.6	0.2	0.1	75°	41	46	43	43	45	62
90°-100°	0.0	0.0	0.0	85°	7	7	5	5	5	8
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°	1056.0	28.9	19.4							
0°-40°	1764.4	48.3	32.4							
0°-60°	3206.9	87.7	58.8							
0°-90°	3656.3	100.0	67.1							
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°	3656.3	100.0	67.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1356.9	1356.9	1356.9	1356.9	1356.9
2.5°	1356.1	1352.2	1353.7	1358.0	1360.9
5°	1351.9	1348.5	1351.0	1354.7	1357.5
7.5°	1341.6	1340.0	1345.3	1347.1	1349.5
10°	1329.2	1327.4	1329.2	1331.1	1335.4
12.5°	1312.2	1311.7	1312.7	1316.5	1318.8
15°	1293.8	1293.8	1292.4	1297.5	1302.3
17.5°	1271.7	1269.9	1269.7	1278.4	1284.4
20°	1246.7	1242.4	1244.4	1258.9	1271.7
22.5°	1220.2	1215.1	1218.4	1250.0	1271.7
25°	1190.0	1183.0	1194.8	1248.6	1278.2
27.5°	1157.6	1150.5	1173.2	1253.8	1288.6
30°	1124.1	1115.1	1158.5	1253.4	1286.7
32.5°	1087.8	1078.3	1144.9	1237.3	1270.6
35°	1049.6	1041.5	1129.7	1210.8	1245.3
37.5°	1006.2	1001.1	1108.0	1181.7	1225.4
40°	960.9	961.4	1075.5	1156.1	1208.1
42.5°	913.4	921.8	1034.5	1125.4	1179.2
45°	861.4	881.2	989.7	1086.4	1135.5
47.5°	808.1	838.8	947.3	1034.4	1077.0
50°	749.7	792.5	898.7	972.2	1014.2
52.5°	692.7	744.1	844.0	913.8	963.2
55°	632.3	686.1	780.3	853.9	908.1
57.5°	569.6	618.5	708.6	774.1	816.2
60°	498.4	546.9	626.2	656.7	686.0
62.5°	420.1	469.2	533.2	518.2	523.9
65°	337.6	385.3	419.6	378.6	376.8
67.5°	245.6	289.5	291.8	247.5	242.8
70°	158.4	185.3	177.2	132.8	122.5
72.5°	81.1	103.7	89.1	69.8	70.3
75°	41.0	46.2	43.4	43.4	44.8
77.5°	26.9	26.8	25.9	27.4	30.2
80°	18.9	17.4	16.5	17.4	19.3
82.5°	11.7	11.3	9.9	9.9	10.4
85°	7.1	7.1	5.1	4.7	5.1
87.5°	1.4	3.7	3.3	2.3	2.3
90°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)