

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: 188P144

Luminaire Tested: **2EP3GX-232S36MI-NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P144
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S36MI-NSBC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
18 cell specular low iridescent parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

Summary

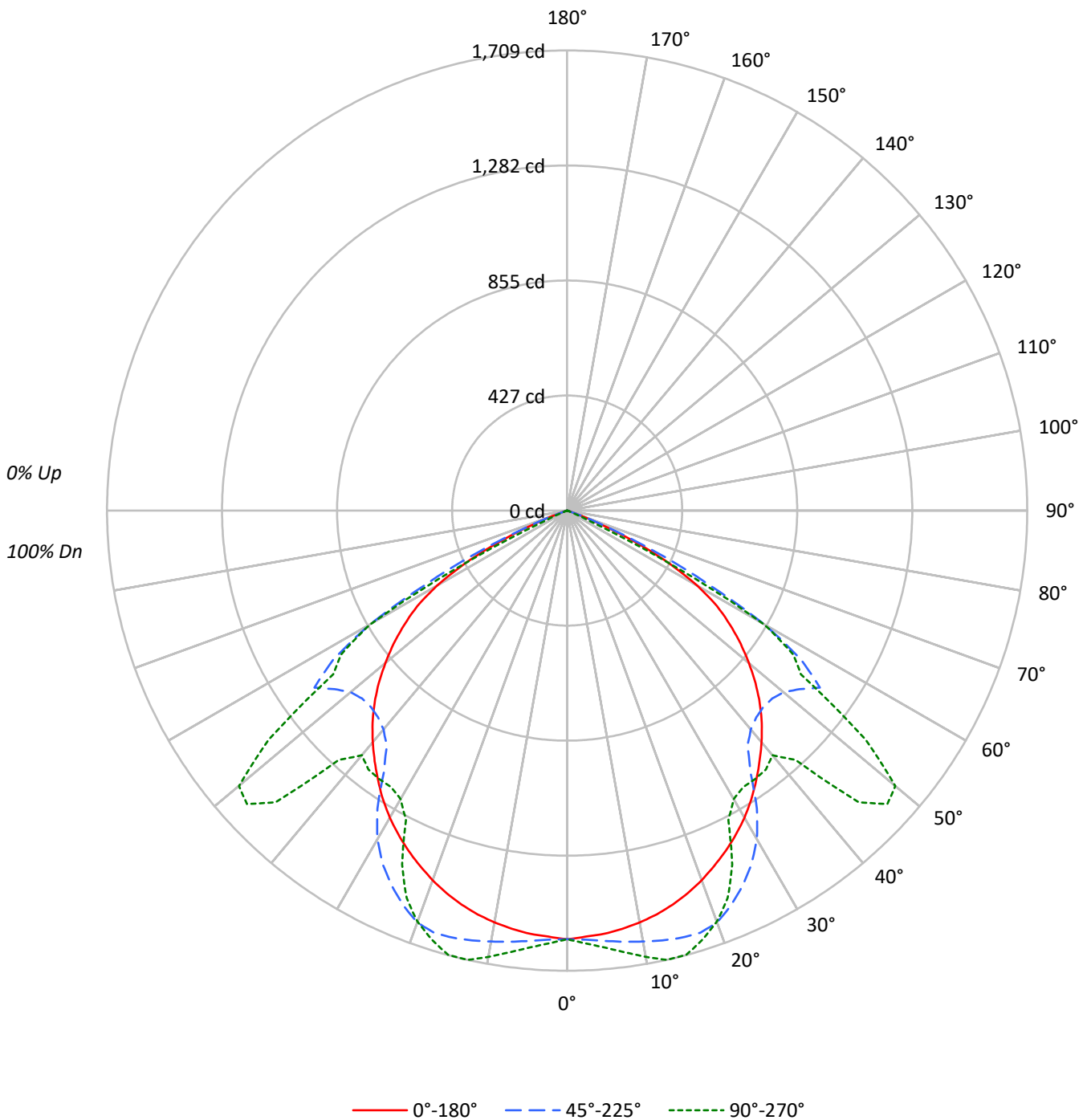
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4169.0 lumens
Efficiency: 74.4%
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.17 / 1.35
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.5
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									70									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	89	89	89	89	87	87	87	87	83	83	83	79	79	79	76	76	76	74																				
1	83	80	77	75	81	78	76	74	75	73	71	72	70	69	69	68	67	66																				
2	76	71	66	63	74	69	65	62	67	63	61	64	62	59	62	60	58	56																				
3	70	63	57	53	68	62	57	53	59	55	52	57	54	51	56	53	50	48																				
4	64	56	50	45	62	55	49	45	53	48	44	51	47	44	50	46	43	42																				
5	59	50	44	39	57	49	43	39	48	42	39	46	42	38	45	41	38	36																				
6	54	45	39	34	53	44	38	34	43	38	34	42	37	33	41	36	33	32																				
7	50	41	35	30	49	40	34	30	39	34	30	38	33	30	37	33	29	28																				
8	47	37	31	27	46	37	31	27	36	30	27	35	30	26	34	30	26	25																				
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	31	27	24	22																				
10	41	31	26	22	40	31	26	22	30	25	22	30	25	22	29	25	22	20																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2643	2643	2643
5°	2629	2673	2714
10°	2618	2739	2837
15°	2604	2822	2935
20°	2581	2876	2871
25°	2553	2819	2658
30°	2524	2701	2371
35°	2480	2405	2466
40°	2433	2299	2570
45°	2376	2420	3594
50°	2275	2709	4109
55°	2136	3317	3068
60°	1852	2809	2805
65°	1159	1418	373
70°	199	214	39
75°	32	32	26
80°	19	29	19
85°	19	19	19



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	153.6	3.7	2.7	0°	1592	1592	1592	1592	1592	
10°-20°	457.8	11.0	8.2	5°	1578	1586	1604	1618	1629	150
20°-30°	678.9	16.3	12.1	15°	1515	1562	1642	1694	1708	427
30°-40°	773.6	18.6	13.8	25°	1394	1491	1539	1491	1451	642
40°-50°	893.9	21.4	16.0	35°	1224	1341	1187	1171	1217	766
50°-60°	875.3	21.0	15.6	45°	1012	1058	1031	1240	1531	778
60°-70°	324.8	7.8	5.8	55°	738	752	1146	1168	1060	654
70°-80°	10.0	0.2	0.2	65°	295	383	361	191	95	286
80°-90°	1.1	0.0	0.0	75°	5	5	5	5	4	11
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	1
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°	1290.3	30.9	23.0	165°	0	0	0	0	0	0
0°-40°	2063.9	49.5	36.9	175°	0	0	0	0	0	0
0°-60°	3833.1	91.9	68.4	180°	0	0	0	0	0	0
0°-90°	4169.0	100.0	74.4							
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°	4169.0	100.0	74.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592	1592	1592	1592	1592
2.5°	1584	1588	1595	1600	1609
5°	1578	1586	1604	1618	1629
7.5°	1567	1584	1615	1640	1655
10°	1553	1579	1625	1663	1683
12.5°	1536	1572	1635	1685	1709
15°	1515	1562	1642	1694	1708
17.5°	1490	1549	1644	1666	1671
20°	1461	1534	1628	1624	1625
22.5°	1428	1514	1588	1569	1558
25°	1394	1491	1539	1491	1451
27.5°	1357	1464	1482	1364	1296
30°	1317	1433	1409	1234	1237
32.5°	1273	1394	1312	1191	1217
35°	1224	1341	1187	1171	1217
37.5°	1174	1277	1100	1167	1212
40°	1123	1208	1061	1156	1186
42.5°	1070	1137	1040	1148	1255
45°	1012	1058	1031	1240	1531
47.5°	949	974	1033	1455	1613
50°	881	891	1049	1490	1591
52.5°	812	810	1089	1415	1397
55°	738	752	1146	1168	1060
57.5°	660	704	1030	902	996
60°	558	646	846	802	845
62.5°	434	549	586	559	462
65°	295	383	361	191	95
67.5°	138	211	155	31	13
70°	41	65	44	10	8
72.5°	11	19	9	7	6
75°	5	5	5	5	4
77.5°	4	3	4	3	3
80°	2	2	3	2	2
82.5°	1	1	2	1	1
85°	1	1	1	1	1
87.5°	0	1	1	0	0
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)