

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: 188P143

Luminaire Tested: **2EP3GX-232S48MI-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P143
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232S48MI-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
32 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

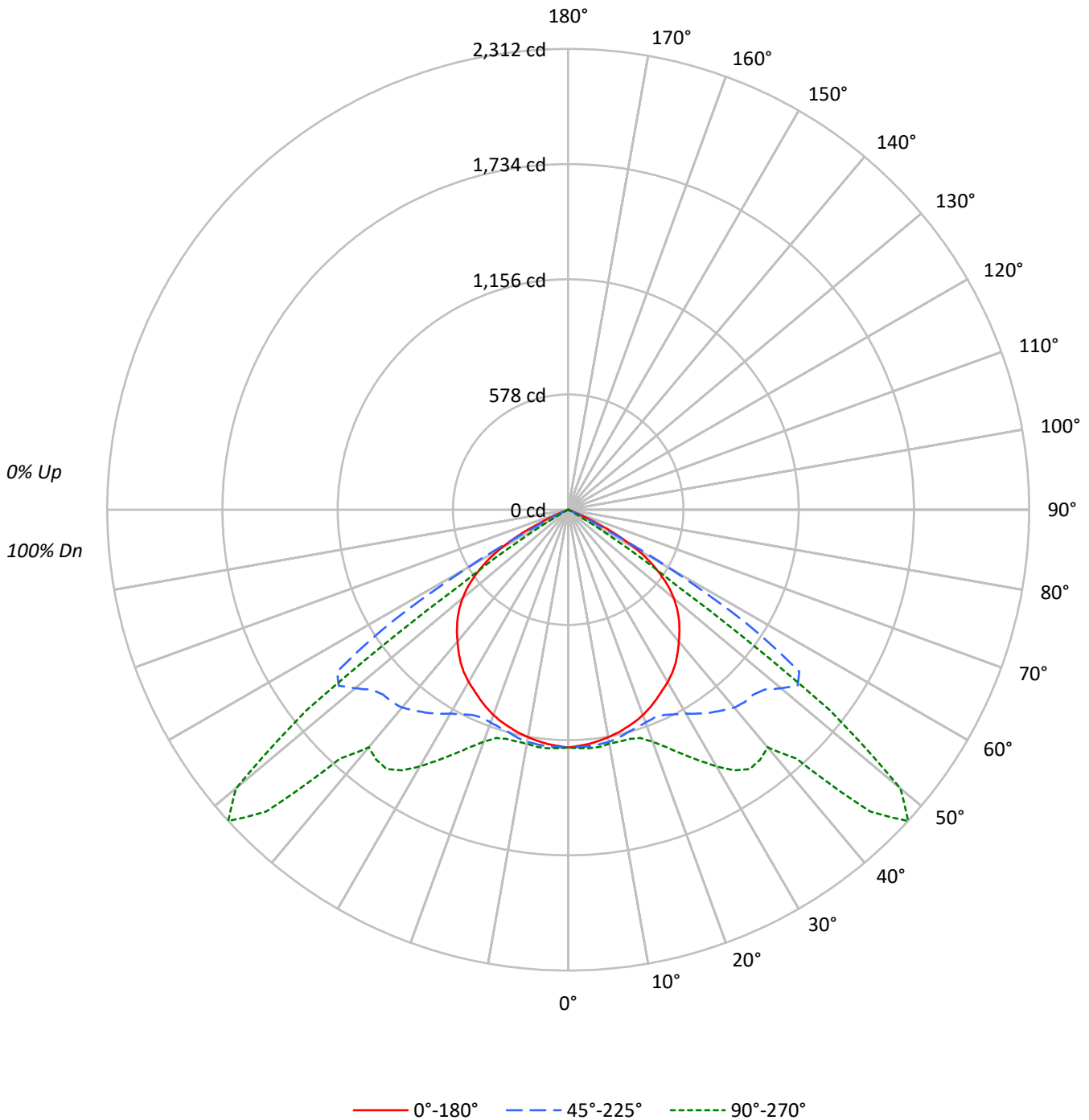
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3812.7 lumens
Efficiency: 68.1%
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 2.35 / 1.92
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 58.9
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	81	81	81	81	79	79	79	79	76	76	76		72	72	72		69	69	69	68
1	76	73	71	69	74	71	69	67	69	67	65		66	65	63		64	62	61	60
2	70	65	61	58	68	64	60	57	61	58	56		59	57	54		57	55	53	52
3	64	57	52	49	62	56	52	48	54	51	47		53	49	46		51	48	46	44
4	58	51	45	41	57	50	45	41	48	44	40		47	43	40		45	42	39	38
5	54	45	40	35	52	45	39	35	43	39	35		42	38	35		41	37	34	33
6	49	41	35	31	48	40	35	31	39	34	30		38	33	30		37	33	30	28
7	46	37	31	27	44	36	31	27	35	30	27		34	30	26		33	29	26	25
8	42	33	28	24	41	33	27	24	32	27	23		31	27	23		30	26	23	22
9	39	30	25	21	38	30	25	21	29	24	21		28	24	21		28	24	21	19
10	37	28	22	19	36	27	22	19	27	22	19		26	22	19		25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1980	1980	1980
5°	1966	1985	2001
10°	1954	1992	2009
15°	1944	1987	2047
20°	1936	2007	2189
25°	1919	2081	2476
30°	1913	2264	2848
35°	1903	2519	3218
40°	1870	2808	3372
45°	1845	3080	5028
50°	1787	3600	5617
55°	1629	4095	1942
60°	1315	1939	193
65°	581	157	43
70°	49	34	24
75°	26	26	19
80°	19	19	10
85°	19	19	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	113.3	3.0	2.0	0°	1193	1193	1193	1193	1193	
10°-20°	329.1	8.6	5.9	5°	1180	1185	1191	1196	1201	112
20°-30°	544.8	14.3	9.7	15°	1131	1146	1156	1179	1191	319
30°-40°	777.1	20.4	13.9	25°	1048	1068	1136	1280	1352	484
40°-50°	1046.9	27.5	18.7	35°	939	980	1243	1499	1588	586
50°-60°	864.0	22.7	15.4	45°	786	918	1312	1696	2142	605
60°-70°	132.2	3.5	2.4	55°	563	860	1415	1117	671	497
70°-80°	4.4	0.1	0.1	65°	148	242	40	13	11	167
80°-90°	0.8	0.0	0.0	75°	4	4	4	3	3	5
90°-100°	0.0	0.0	0.0	85°	1	1	1	0	0	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°	987.2	25.9	17.6	165°	0	0	0	0	0	0
0°-40°	1764.3	46.3	31.5	175°	0	0	0	0	0	0
0°-60°	3675.2	96.4	65.6	180°	0	0	0	0	0	0
0°-90°	3812.7	100.0	68.1							
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°	3812.7	100.0	68.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193	1193	1193	1193	1193
2.5°	1186	1190	1192	1194	1198
5°	1180	1185	1191	1196	1201
7.5°	1170	1178	1188	1196	1201
10°	1159	1169	1182	1188	1192
12.5°	1146	1158	1172	1181	1191
15°	1131	1146	1156	1179	1191
17.5°	1115	1132	1145	1178	1200
20°	1096	1115	1136	1197	1239
22.5°	1073	1095	1129	1235	1289
25°	1048	1068	1136	1280	1352
27.5°	1022	1044	1157	1337	1417
30°	998	1021	1181	1390	1486
32.5°	971	1000	1213	1450	1551
35°	939	980	1243	1499	1588
37.5°	902	960	1269	1513	1581
40°	863	942	1296	1500	1556
42.5°	826	929	1309	1515	1693
45°	786	918	1312	1696	2142
47.5°	742	911	1336	2027	2312
50°	692	906	1394	2047	2175
52.5°	634	895	1450	1739	1655
55°	563	860	1415	1117	671
57.5°	487	788	1059	417	275
60°	396	667	584	142	58
62.5°	280	461	200	27	17
65°	148	242	40	13	11
67.5°	51	83	11	8	7
70°	10	16	7	6	5
72.5°	5	6	5	5	4
75°	4	4	4	3	3
77.5°	3	3	3	2	2
80°	2	2	2	2	1
82.5°	2	1	1	1	1
85°	1	1	1	0	0
87.5°	1	1	0	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)