

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: 220P153

Luminaire Tested: **2EP3GX-332S38MI-2BC**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S38MI-2BC
Description: 2 X 4 Recessed Convertible Body Luminaire with a
24 cell specular parabolic louver and two ballast covers.
Light Source: Three FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F.=85.8%

Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5905.6 lumens
Efficiency: 70.3%
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.73 / 1.58
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

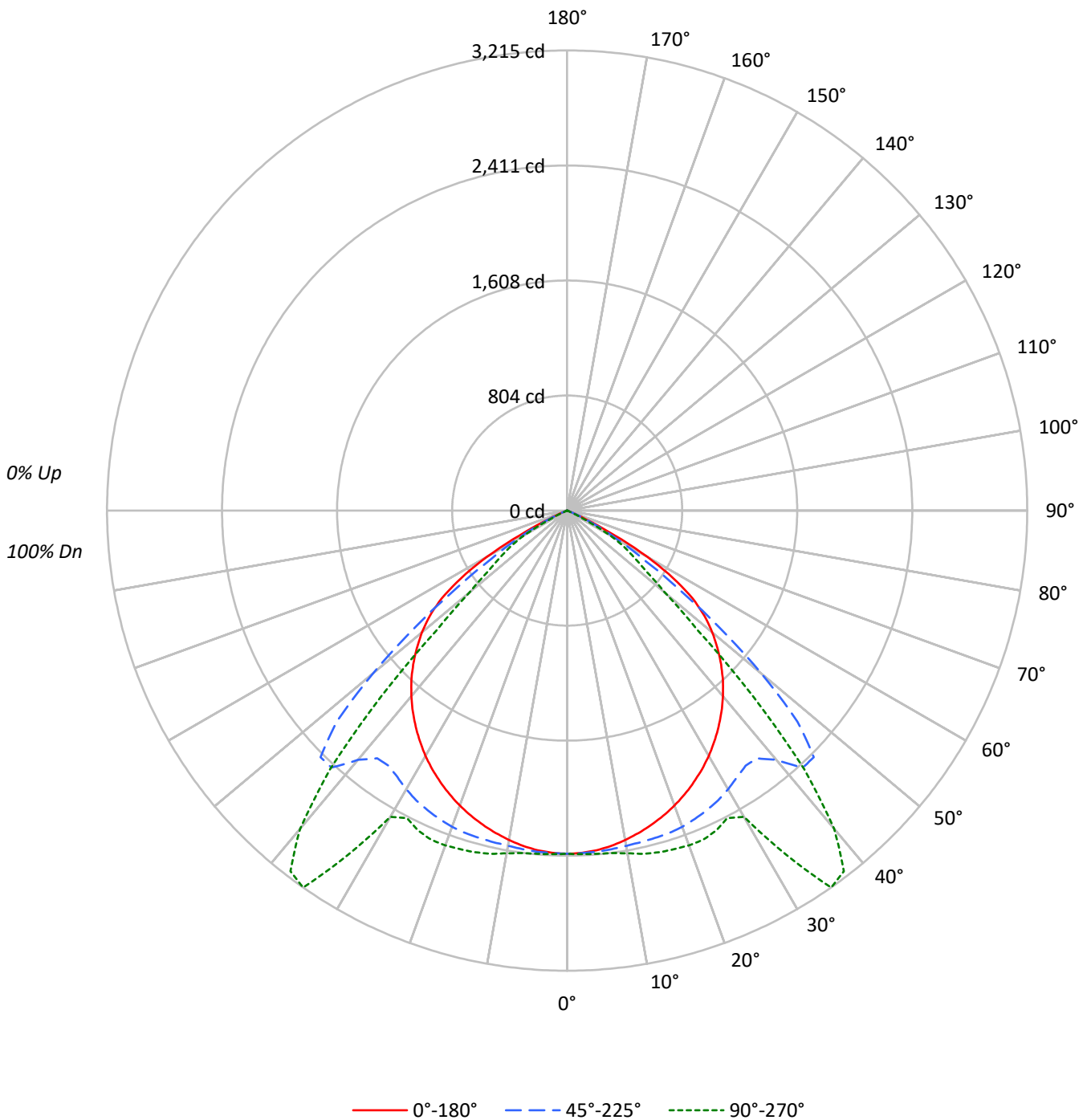
Input Watts (W): 84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 220P153

CATALOG NUMBER: 2EP3GX-332S38MI-2BC

Luminous Intensity Polar Plot





TEST NUMBER: 220P153

CATALOG NUMBER: 2EP3GX-332S38MI-2BC

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	50	30	10	50	30	10	0		
RCR																										
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70					70			
1	78	76	74	72	77	74	72	70	71	70	68	69	67	66	66	65	64	63					63			
2	73	68	64	61	71	67	63	61	65	62	59	62	60	58	60	58	57	55					55			
3	67	61	56	53	66	60	56	52	58	54	51	56	53	51	55	52	50	48					48			
4	62	55	50	46	61	54	49	45	52	48	45	51	47	44	49	46	44	42					42			
5	58	50	44	40	56	49	44	40	47	43	39	46	42	39	45	41	39	37					37			
6	53	45	39	35	52	44	39	35	43	38	35	42	38	35	41	37	34	33					33			
7	49	41	35	31	48	40	35	31	39	34	31	38	34	31	37	34	31	29					29			
8	46	37	32	28	45	37	32	28	36	31	28	35	31	28	34	30	27	26					26			
9	43	34	29	25	42	34	29	25	33	28	25	32	28	25	32	28	25	24					24			
10	40	32	26	23	39	31	26	23	31	26	23	30	26	23	29	25	22	21					21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3979	3979	3979
5°	3967	3986	4009
10°	3937	4006	4096
15°	3904	4068	4246
20°	3872	4151	4395
25°	3833	4227	4515
30°	3791	4307	4734
35°	3735	4405	6512
40°	3667	4925	6288
45°	3569	5718	4315
50°	3418	4584	2295
55°	3098	2708	1655
60°	2147	1390	1165
65°	581	451	145
70°	58	53	34
75°	38	38	26
80°	38	29	19
85°	38	19	19



TEST NUMBER: 220P153

CATALOG NUMBER: 2EP3GX-332S38MI-2BC

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	228.0	3.9	2.7	0°	2398	2398	2398	2398	2398	
10°-20°	670.3	11.3	8.0	5°	2382	2384	2393	2401	2407	226
20°-30°	1057.7	17.9	12.6	15°	2273	2294	2368	2442	2472	641
30°-40°	1466.7	24.8	17.5	25°	2094	2163	2309	2422	2466	965
40°-50°	1483.3	25.1	17.7	35°	1844	1973	2175	2823	3215	1153
50°-60°	831.4	14.1	9.9	45°	1521	1715	2437	2081	1839	1171
60°-70°	160.0	2.7	1.9	55°	1071	1381	936	590	572	925
70°-80°	6.3	0.1	0.1	65°	148	132	115	67	37	216
80°-90°	1.8	0.0	0.0	75°	6	7	6	5	4	7
90°-100°	0.0	0.0	0.0	85°	2	2	1	1	1	2
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°	1956.0	33.1	23.3	165°	0	0	0	0	0	0
0°-40°	3422.8	58.0	40.7	175°	0	0	0	0	0	0
0°-60°	5737.4	97.2	68.3	180°	0	0	0	0	0	0
0°-90°	5905.6	100.0	70.3							
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°	5905.6	100.0	70.3							



TEST NUMBER: 220P153

CATALOG NUMBER: 2EP3GX-332S38MI-2BC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2398	2398	2398	2398	2398
2.5°	2393	2392	2395	2400	2403
5°	2382	2384	2393	2401	2407
7.5°	2363	2369	2386	2405	2413
10°	2337	2348	2378	2415	2431
12.5°	2307	2322	2373	2431	2456
15°	2273	2294	2368	2442	2472
17.5°	2235	2265	2363	2446	2481
20°	2193	2233	2351	2445	2489
22.5°	2146	2200	2332	2441	2488
25°	2094	2163	2309	2422	2466
27.5°	2039	2124	2283	2383	2422
30°	1979	2080	2248	2350	2471
32.5°	1914	2031	2208	2457	2854
35°	1844	1973	2175	2823	3215
37.5°	1771	1909	2181	3039	3176
40°	1693	1844	2274	2923	2903
42.5°	1611	1779	2436	2597	2450
45°	1521	1715	2437	2081	1839
47.5°	1426	1654	2184	1514	1231
50°	1324	1599	1776	1036	889
52.5°	1210	1523	1334	757	694
55°	1071	1381	936	590	572
57.5°	881	1128	630	471	471
60°	647	729	419	353	351
62.5°	376	348	250	207	174
65°	148	132	115	67	37
67.5°	34	43	39	17	10
70°	12	14	11	9	7
72.5°	9	9	7	6	5
75°	6	7	6	5	4
77.5°	5	5	4	3	3
80°	4	4	3	3	2
82.5°	3	3	2	2	2
85°	2	2	1	1	1
87.5°	2	1	1	1	1
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



TEST NUMBER: 220P153

CATALOG NUMBER: 2EP3GX-332S38MI-2BC

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)