

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: 220P154

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P154
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S38MI
Description: 2 X 4 Recessed Convertible Body Luminaire with a
24 cell specular parabolic louver.
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

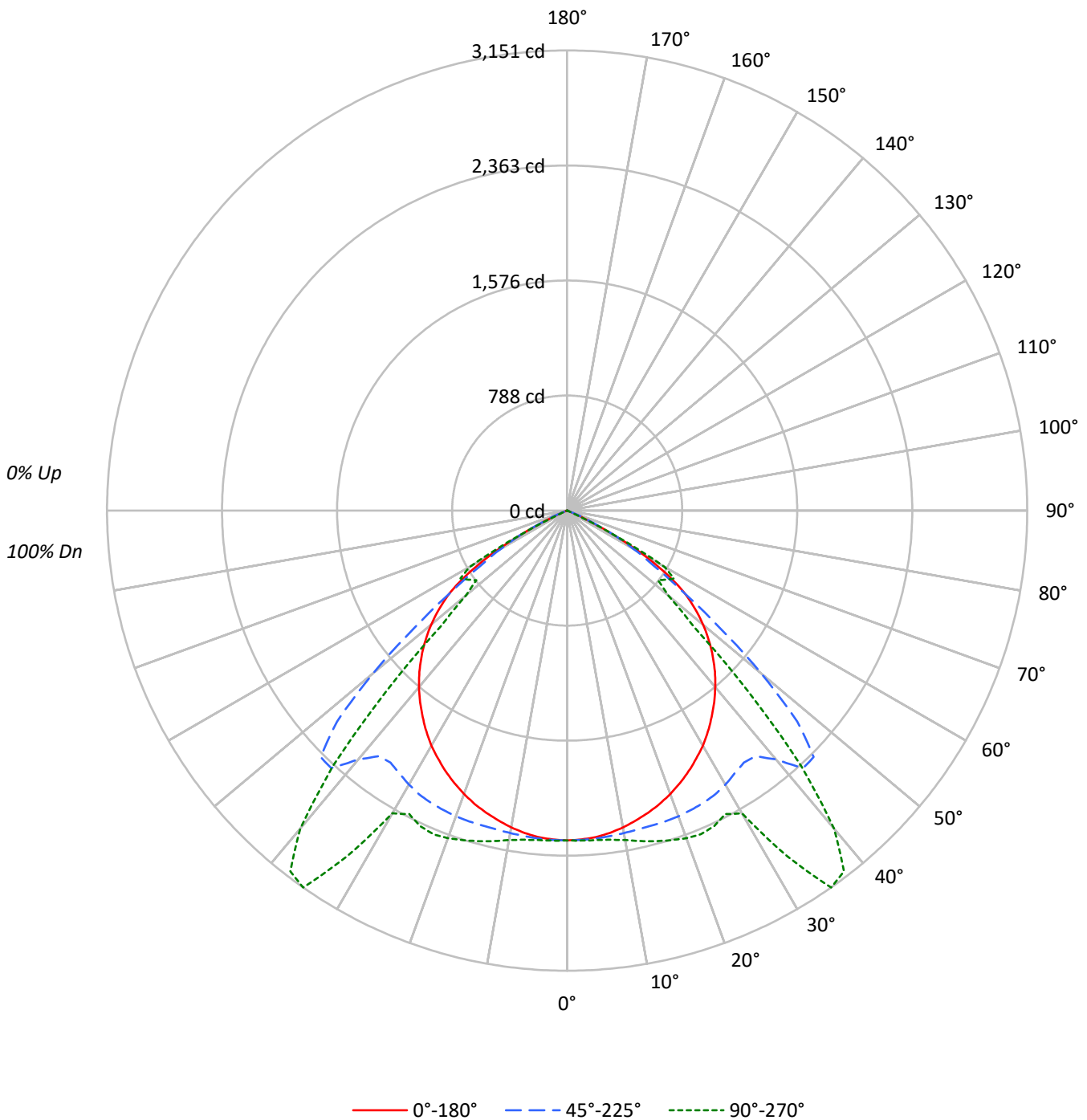
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5819.8 lumens
Efficiency: 69.3%
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.74 / 1.59
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 83
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: 220P154
CATALOG NUMBER: 2EP3GX-332S38MI

Luminous Intensity Polar Plot





TEST NUMBER: 220P154

CATALOG NUMBER: 2EP3GX-332S38MI

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	82	82	82	82	81	81	81	81	77	77	77	74	74	74	71	71	71	69																			
1	77	75	72	70	75	73	71	69	70	69	67	68	66	65	65	64	63	62																			
2	72	67	63	60	70	66	62	59	63	60	58	61	59	57	59	57	55	54																			
3	66	60	55	51	64	59	54	51	57	53	50	55	52	49	53	51	48	47																			
4	61	54	48	44	59	53	48	44	51	47	44	50	46	43	48	45	42	41																			
5	56	48	43	39	55	48	42	39	46	42	38	45	41	38	44	40	37	36																			
6	52	44	38	34	51	43	38	34	42	37	34	41	37	33	40	36	33	32																			
7	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	29	28																			
8	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	26	25																			
9	42	33	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	23																			
10	39	31	25	22	38	30	25	22	30	25	22	29	25	22	28	24	22	20																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3748	3748	3748
5°	3739	3754	3772
10°	3712	3777	3860
15°	3679	3836	4026
20°	3646	3934	4215
25°	3605	4042	4363
30°	3560	4152	4587
35°	3494	4270	6382
40°	3418	4815	6155
45°	3308	5601	4118
50°	3141	4486	2333
55°	2832	2780	2386
60°	1978	1735	2552
65°	550	679	232
70°	58	63	44
75°	38	38	26
80°	38	29	29
85°	38	38	19



TEST NUMBER: 220P154

CATALOG NUMBER: 2EP3GX-332S38MI

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	214.9	3.7	2.6	0°	2259	2259	2259	2259	2259	
10°-20°	633.7	10.9	7.5	5°	2245	2247	2254	2262	2265	213
20°-30°	1009.8	17.4	12.0	15°	2142	2163	2233	2312	2344	604
30°-40°	1417.5	24.4	16.9	25°	1969	2038	2208	2337	2383	907
40°-50°	1434.7	24.7	17.1	35°	1725	1871	2108	2778	3151	1079
50°-60°	885.6	15.2	10.5	45°	1410	1648	2387	2014	1755	1085
60°-70°	215.2	3.7	2.6	55°	979	1345	961	748	825	847
70°-80°	6.7	0.1	0.1	65°	140	144	173	130	59	201
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	2	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°	1858.4	31.9	22.1	165°	0	0	0	0	0	0
0°-40°	3275.9	56.3	39.0	175°	0	0	0	0	0	0
0°-60°	5596.1	96.2	66.6	180°	0	0	0	0	0	0
0°-90°	5819.8	100.0	69.3							
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°	5819.8	100.0	69.3							



TEST NUMBER: 220P154

CATALOG NUMBER: 2EP3GX-332S38MI

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2259	2259	2259	2259	2259
2.5°	2254	2255	2257	2261	2262
5°	2245	2247	2254	2262	2265
7.5°	2227	2234	2248	2265	2273
10°	2203	2214	2242	2276	2291
12.5°	2174	2189	2236	2294	2318
15°	2142	2163	2233	2312	2344
17.5°	2106	2135	2232	2327	2366
20°	2065	2105	2228	2340	2387
22.5°	2019	2073	2219	2347	2398
25°	1969	2038	2208	2337	2383
27.5°	1915	2003	2192	2305	2343
30°	1858	1964	2167	2276	2394
32.5°	1794	1921	2135	2397	2808
35°	1725	1871	2108	2778	3151
37.5°	1654	1816	2119	2980	3114
40°	1578	1762	2223	2865	2842
42.5°	1498	1705	2392	2541	2375
45°	1410	1648	2387	2014	1755
47.5°	1317	1595	2137	1456	1173
50°	1217	1547	1738	1024	904
52.5°	1104	1478	1315	821	783
55°	979	1345	961	748	825
57.5°	808	1114	706	738	866
60°	596	741	523	653	769
62.5°	348	366	358	423	376
65°	140	144	173	130	59
67.5°	32	47	65	22	13
70°	12	14	13	10	9
72.5°	8	9	8	7	6
75°	6	7	6	5	4
77.5°	5	5	4	4	4
80°	4	4	3	3	3
82.5°	3	3	2	2	2
85°	2	2	2	1	1
87.5°	1	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: 220P154

CATALOG NUMBER: 2EP3GX-332S38MI

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)