

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: 220P150

Luminaire Tested: **2EP3GX-332S36MI-2BC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 220P150  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-332S36MI-2BC  
Description: 2 X 4 Recessed Convertible Body Luminaire with an  
18 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**

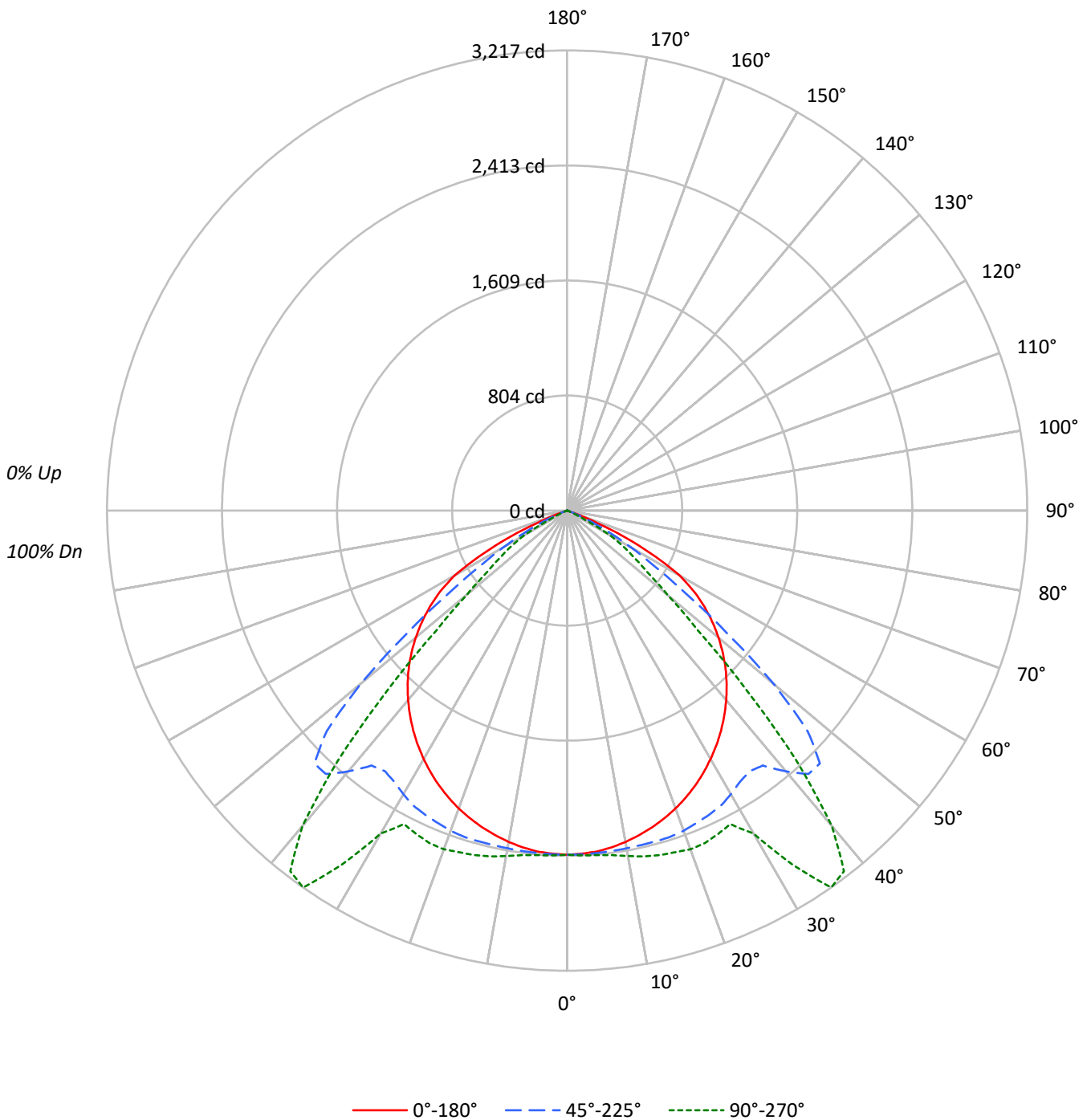
Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6186.3 lumens  
Efficiency: 73.6%  
Efficacy: 74.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.72 / 1.59  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

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



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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	50	30	10	0	
RCR																						
0	88	88	88	88	86	86	86	86	82	82	82	78	78	78	75	75	75	74				
1	82	79	77	75	80	78	76	74	75	73	71	72	70	69	69	68	67	66				
2	76	71	67	64	74	70	66	63	67	64	61	65	62	60	63	61	59	57				
3	70	64	59	54	68	62	58	54	60	56	53	58	55	52	57	54	51	50				
4	65	57	51	47	63	56	51	47	54	50	46	53	49	46	51	48	45	44				
5	60	51	45	41	58	51	45	41	49	44	40	48	43	40	46	43	40	38				
6	55	46	40	36	54	46	40	36	44	39	36	43	39	35	42	38	35	34				
7	51	42	36	32	50	42	36	32	40	35	32	39	35	31	38	34	31	30				
8	48	38	33	29	47	38	32	29	37	32	28	36	32	28	35	31	28	27				
9	45	35	30	26	44	35	29	26	34	29	26	33	29	25	33	28	25	24				
10	42	32	27	23	41	32	27	23	31	26	23	31	26	23	30	26	23	22				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3992	3992	3992
5°	3984	4002	4027
10°	3963	4038	4131
15°	3939	4112	4284
20°	3913	4206	4449
25°	3881	4297	4568
30°	3841	4387	4997
35°	3800	4503	6516
40°	3747	5157	6236
45°	3677	5864	4160
50°	3567	4860	2364
55°	3387	2945	1649
60°	3010	1709	1148
65°	1849	766	173
70°	369	131	44
75°	45	38	32
80°	38	29	29
85°	38	19	19



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	229.3	3.7	2.7	0°	2406	2406	2406	2406	2406	
10°-20°	677.1	10.9	8.1	5°	2392	2394	2403	2412	2418	227
20°-30°	1075.0	17.4	12.8	15°	2293	2317	2394	2467	2494	647
30°-40°	1498.5	24.2	17.8	25°	2120	2195	2347	2456	2495	977
40°-50°	1512.3	24.4	18.0	35°	1876	2011	2223	2894	3217	1173
50°-60°	907.9	14.7	10.8	45°	1567	1762	2499	2072	1773	1207
60°-70°	274.0	4.4	3.3	55°	1171	1504	1018	612	570	1038
70°-80°	10.6	0.2	0.1	65°	471	416	195	84	44	464
80°-90°	1.8	0.0	0.0	75°	7	7	6	6	5	17
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°	1981.3	32.0	23.6	165°	0	0	0	0	0	0
0°-40°	3479.8	56.3	41.4	175°	0	0	0	0	0	0
0°-60°	5900.0	95.4	70.2	180°	0	0	0	0	0	0
0°-90°	6186.3	100.0	73.6							
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°	6186.3	100.0	73.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2406	2406	2406	2406	2406
2.5°	2401	2401	2405	2410	2413
5°	2392	2394	2403	2412	2418
7.5°	2375	2381	2400	2420	2430
10°	2352	2363	2397	2434	2452
12.5°	2324	2341	2395	2453	2476
15°	2293	2317	2394	2467	2494
17.5°	2257	2291	2392	2471	2504
20°	2216	2262	2382	2477	2520
22.5°	2170	2230	2364	2477	2516
25°	2120	2195	2347	2456	2495
27.5°	2065	2156	2326	2426	2471
30°	2005	2113	2290	2422	2608
32.5°	1943	2064	2248	2607	2936
35°	1876	2011	2223	2894	3217
37.5°	1805	1952	2247	3067	3179
40°	1730	1892	2381	2955	2879
42.5°	1651	1829	2498	2614	2375
45°	1567	1762	2499	2072	1773
47.5°	1477	1699	2280	1517	1239
50°	1382	1653	1883	1077	916
52.5°	1279	1590	1415	798	705
55°	1171	1504	1018	612	570
57.5°	1052	1368	726	481	464
60°	907	1088	515	362	346
62.5°	696	763	341	228	165
65°	471	416	195	84	44
67.5°	233	171	85	23	14
70°	76	56	27	11	9
72.5°	14	15	10	8	7
75°	7	7	6	6	5
77.5°	5	5	5	4	3
80°	4	4	3	3	3
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



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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)