

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: 220P140

Luminaire Tested: **2EP3GX-332S36I-2BC-DBLPAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P140
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S36I-2BC-DBLPAF
Description: 2 X 4 Recessed Convertible Body Luminaire with the housing,
end plates and two ballast covers double painted and an
18 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Motorola M3-IN-T8-GP-D-120 Electronic - L.O.B.F. = 87.6

Summary

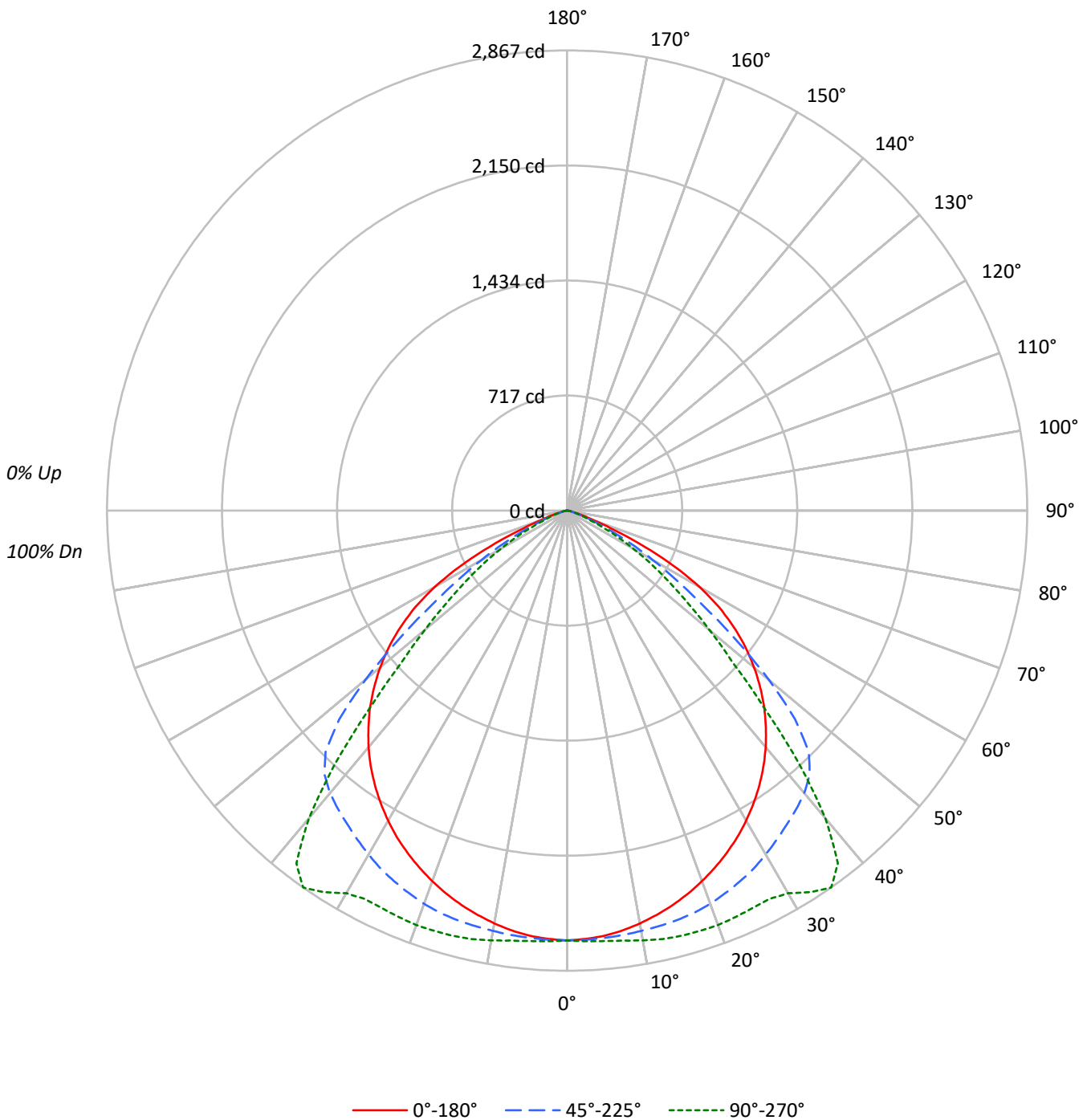
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6534.3 lumens
Efficiency: 77.8%
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.56 / 1.47
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	93	93	93	93	90	90	90	90	86	86	86		83	83	83		79	79	79	78
1	86	84	81	79	84	82	79	77	79	77	75		76	74	73		73	72	71	69
2	80	75	70	67	78	73	69	66	71	67	64		68	65	63		66	64	62	60
3	74	67	61	57	72	66	61	57	63	59	56		61	58	55		59	56	54	52
4	68	60	54	49	66	59	53	49	57	52	48		55	51	48		54	50	47	46
5	63	54	48	43	61	53	47	43	52	46	42		50	46	42		49	45	42	40
6	58	49	43	38	57	48	42	38	47	41	38		46	41	37		44	40	37	35
7	54	44	38	34	53	44	38	34	43	37	33		42	37	33		41	36	33	32
8	50	41	34	30	49	40	34	30	39	34	30		38	33	30		37	33	30	28
9	47	37	31	27	46	37	31	27	36	31	27		35	30	27		34	30	27	25
10	44	34	29	25	43	34	28	25	33	28	25		33	28	24		32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4431	4431	4431
5°	4418	4440	4472
10°	4389	4468	4569
15°	4358	4526	4699
20°	4327	4591	4839
25°	4296	4654	4990
30°	4263	4727	5260
35°	4218	4822	5792
40°	4158	4964	5411
45°	4065	4982	4058
50°	3916	4225	2976
55°	3664	2995	2233
60°	3164	2042	1595
65°	2087	1194	916
70°	856	523	493
75°	384	262	307
80°	200	162	200
85°	114	95	114



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	254.8	3.9	3.0	0°	2678	2678	2678	2678	2678	
10°-20°	746.9	11.4	8.9	5°	2660	2662	2673	2685	2692	252
20°-30°	1175.6	18.0	14.0	15°	2544	2568	2642	2713	2743	718
30°-40°	1514.8	23.2	18.0	25°	2353	2419	2549	2668	2733	1085
40°-50°	1457.2	22.3	17.3	35°	2088	2200	2387	2682	2867	1306
50°-60°	951.4	14.6	11.3	45°	1737	1881	2129	1888	1734	1337
60°-70°	367.6	5.6	4.4	55°	1270	1367	1038	807	774	1124
70°-80°	58.3	0.9	0.7	65°	533	472	305	248	234	534
80°-90°	7.6	0.1	0.1	75°	60	49	41	45	48	78
90°-100°	0.0	0.0	0.0	85°	6	5	5	6	6	8
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°	2177.4	33.3	25.9	165°	0	0	0	0	0	0
0°-40°	3692.2	56.5	44.0	175°	0	0	0	0	0	0
0°-60°	6100.8	93.4	72.6	180°	0	0	0	0	0	0
0°-90°	6534.3	100.0	77.8							
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°	6534.3	100.0	77.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2678	2678	2678	2678	2678
2.5°	2671	2671	2676	2682	2686
5°	2660	2662	2673	2685	2692
7.5°	2639	2646	2667	2690	2702
10°	2612	2624	2659	2700	2719
12.5°	2580	2598	2652	2709	2735
15°	2544	2568	2642	2713	2743
17.5°	2503	2535	2628	2708	2746
20°	2457	2499	2607	2701	2748
22.5°	2407	2461	2579	2689	2741
25°	2353	2419	2549	2668	2733
27.5°	2295	2372	2515	2649	2728
30°	2231	2321	2474	2637	2753
32.5°	2162	2264	2431	2650	2818
35°	2088	2200	2387	2682	2867
37.5°	2009	2130	2345	2679	2771
40°	1925	2054	2298	2533	2505
42.5°	1833	1972	2236	2246	2142
45°	1737	1881	2129	1888	1734
47.5°	1632	1776	1927	1516	1396
50°	1521	1660	1641	1219	1156
52.5°	1402	1525	1332	999	950
55°	1270	1367	1038	807	774
57.5°	1124	1177	803	641	621
60°	956	958	617	497	482
62.5°	752	719	449	366	349
65°	533	472	305	248	234
67.5°	322	267	190	160	150
70°	177	139	108	101	102
72.5°	101	80	63	67	70
75°	60	49	41	45	48
77.5°	36	30	27	30	32
80°	21	19	17	19	21
82.5°	12	11	10	11	12
85°	6	5	5	6	6
87.5°	2	2	2	2	2
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)