

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: 188P136

Luminaire Tested: **2EP3GX-332W26P-2NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P136
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332W26P-2NSBC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
12 cell white painted parabolic louver.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6373.0 lumens
Efficiency: 75.9%
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.36 / 1.35
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

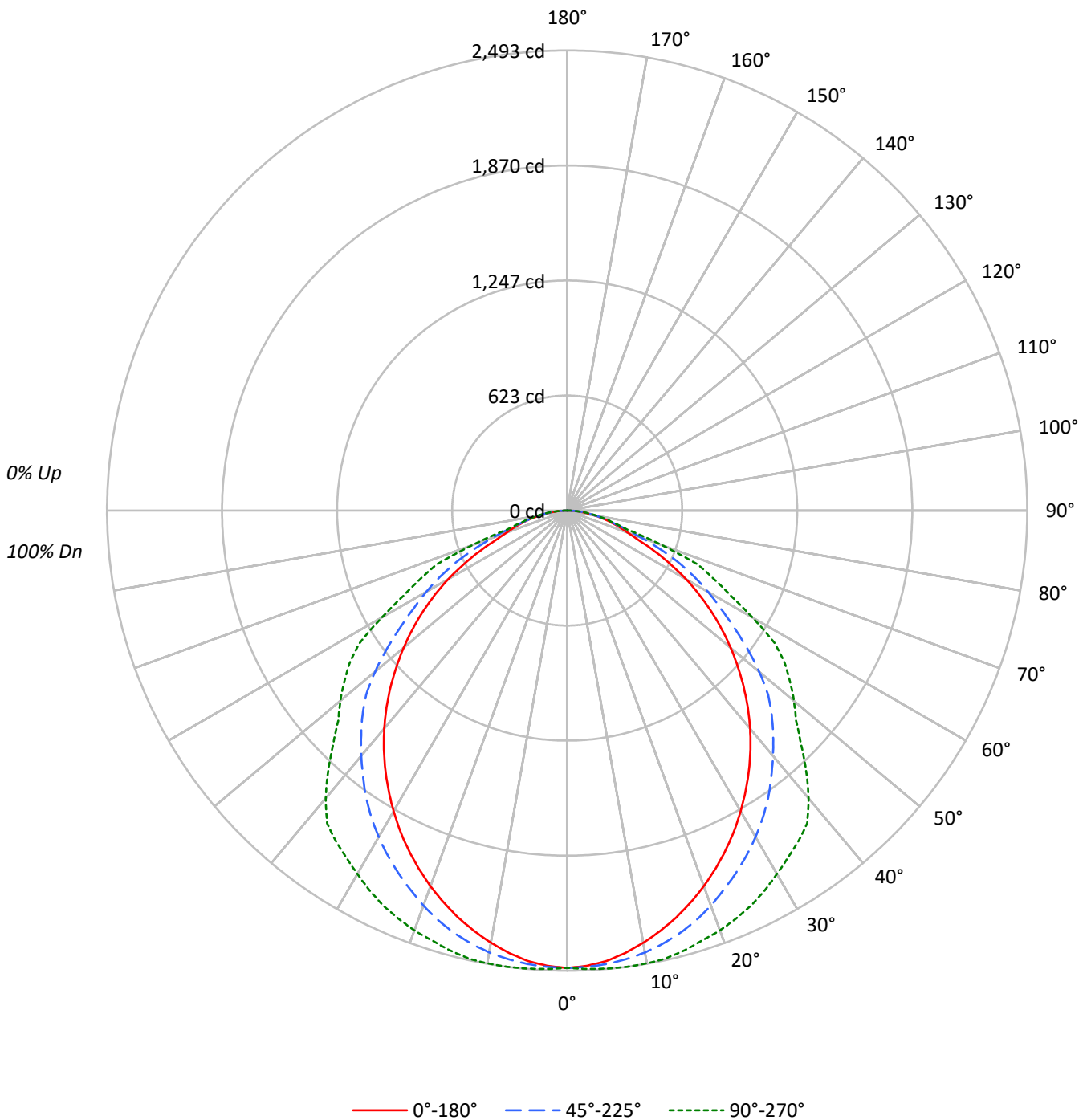
Input Watts (W): 85.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	77	77	77	76
1	83	80	77	74	81	78	75	73	75	73	71	72	70	68	69	68	66	65
2	76	70	65	61	74	69	64	60	66	62	59	64	60	58	61	59	56	55
3	70	62	56	51	68	61	55	51	59	54	50	57	53	49	55	51	48	47
4	64	55	49	44	62	54	48	44	52	47	43	51	46	42	49	45	42	40
5	59	49	43	38	57	49	42	38	47	42	37	46	41	37	44	40	37	35
6	54	45	38	33	53	44	38	33	43	37	33	41	36	33	40	36	32	31
7	50	40	34	29	49	40	34	29	39	33	29	38	33	29	37	32	29	27
8	47	37	31	26	46	36	30	26	35	30	26	35	30	26	34	29	26	24
9	44	34	28	24	43	34	28	24	33	27	24	32	27	23	31	27	23	22
10	41	31	25	22	40	31	25	21	30	25	21	30	25	21	29	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4113	4113	4113
5°	4081	4109	4151
10°	4008	4098	4199
15°	3922	4069	4236
20°	3824	4022	4275
25°	3720	3965	4322
30°	3605	3914	4357
35°	3479	3848	4430
40°	3341	3760	4410
45°	3176	3681	4207
50°	2985	3510	4142
55°	2761	3195	4165
60°	2473	2925	3848
65°	2066	2616	3445
70°	1689	2072	2650
75°	1571	1635	1693
80°	1443	1501	1596
85°	1238	1333	1447



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	234.4	3.7	2.8	0°	2478	2478	2478	2478	2478	
10°-20°	668.4	10.5	8.0	5°	2449	2452	2466	2482	2491	231
20°-30°	1004.8	15.8	12.0	15°	2282	2307	2368	2433	2465	643
30°-40°	1201.6	18.9	14.3	25°	2031	2079	2165	2284	2360	935
40°-50°	1205.9	18.9	14.4	35°	1717	1779	1899	2058	2186	1073
50°-60°	1023.1	16.1	12.2	45°	1353	1422	1568	1695	1792	1042
60°-70°	669.6	10.5	8.0	55°	954	1017	1104	1270	1439	851
70°-80°	285.5	4.5	3.4	65°	526	574	666	756	877	525
80°-90°	79.5	1.2	0.9	75°	245	248	255	261	264	260
90°-100°	0.0	0.0	0.0	85°	65	67	70	73	76	71
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	4
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°	1907.7	29.9	22.7	165°	0	0	0	0	0	0
0°-40°	3109.2	48.8	37.0	175°	0	0	0	0	0	0
0°-60°	5338.3	83.8	63.6	180°	0	0	0	0	0	0
0°-90°	6373.0	100.0	75.9							
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°	6373.0	100.0	75.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2478	2478	2478	2478	2478
2.5°	2469	2469	2474	2481	2486
5°	2449	2452	2466	2482	2491
7.5°	2417	2426	2452	2480	2493
10°	2378	2392	2431	2472	2491
12.5°	2332	2352	2403	2458	2484
15°	2282	2307	2368	2433	2465
17.5°	2226	2258	2327	2398	2441
20°	2165	2203	2277	2364	2420
22.5°	2100	2144	2222	2326	2392
25°	2031	2079	2165	2284	2360
27.5°	1958	2011	2106	2235	2319
30°	1881	1939	2042	2177	2273
32.5°	1800	1861	1973	2117	2228
35°	1717	1779	1899	2058	2186
37.5°	1631	1694	1817	2000	2136
40°	1542	1606	1735	1930	2035
42.5°	1449	1516	1652	1818	1918
45°	1353	1422	1568	1695	1792
47.5°	1254	1325	1477	1568	1682
50°	1156	1226	1359	1454	1604
52.5°	1056	1124	1232	1364	1522
55°	954	1017	1104	1270	1439
57.5°	850	910	986	1175	1331
60°	745	801	881	1055	1159
62.5°	635	690	776	895	1001
65°	526	574	666	756	877
67.5°	419	456	543	651	769
70°	348	359	427	522	546
72.5°	296	298	330	358	338
75°	245	248	255	261	264
77.5°	197	199	204	210	216
80°	151	153	157	162	167
82.5°	107	109	112	117	120
85°	65	67	70	73	76
87.5°	29	29	30	32	33
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)