

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: 108P146

Luminaire Tested: **2GC-332PB2S-PAF**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P146
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-332PB2S-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a plastic parabolic louver with cell dimensions of 1.5" x 1.5" x 1.0".
Light Source: Three - F032T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 88.5

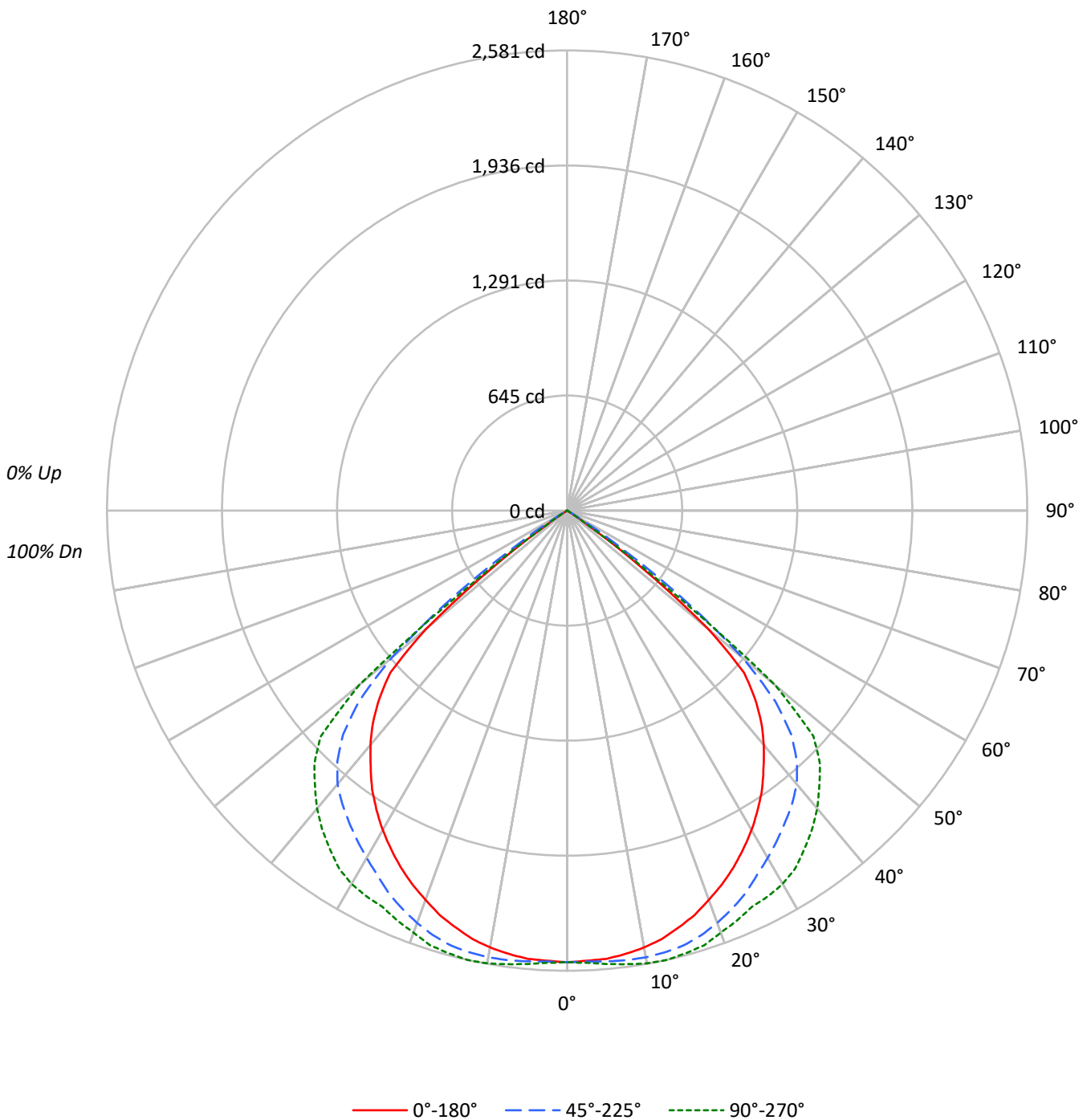
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5071.4 lumens
Efficiency: 60.4%
Efficacy: 58.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.41 / 1.41
Luminous Opening: Rectangular (W 1.72' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 86.6
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

TEST NUMBER: 108P146
CATALOG NUMBER: 2GC-332PB2S-PAF

Luminous Intensity Polar Plot





TEST NUMBER: 108P146

CATALOG NUMBER: 2GC-332PB2S-PAF

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4278	4278	4278
5°	4279	4302	4328
10°	4266	4363	4423
15°	4231	4415	4493
20°	4175	4423	4527
25°	4114	4412	4569
30°	4035	4386	4715
35°	3931	4397	4781
40°	3783	4416	4810
45°	3556	4246	4788
50°	2714	3376	3999
55°	392	1204	421
60°	14	61	10
65°	12	8	8
70°	10	5	5
75°	7	7	7
80°	10	10	0
85°	0	0	0



TEST NUMBER: 108P146

CATALOG NUMBER: 2GC-332PB2S-PAF

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	242.4	4.8	2.9	0°	2533	2533	2533	2533	2533	
10°-20°	708.7	14.0	8.4	5°	2524	2528	2538	2552	2553	240
20°-30°	1086.8	21.4	12.9	15°	2420	2458	2525	2568	2570	683
30°-40°	1332.1	26.3	15.9	25°	2208	2286	2368	2439	2452	1016
40°-50°	1321.3	26.1	15.7	35°	1907	2003	2133	2279	2319	1189
50°-60°	375.9	7.4	4.5	45°	1489	1619	1778	1916	2005	1121
60°-70°	2.9	0.1	0.0	55°	133	276	409	278	143	261
70°-80°	1.1	0.0	0.0	65°	3	3	2	2	2	3
80°-90°	0.2	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	0	0	0	0	0	0
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°	2037.9	40.2	24.3	165°	0	0	0	0	0	0
0°-40°	3370.0	66.5	40.1	175°	0	0	0	0	0	0
0°-60°	5067.2	99.9	60.3	180°	0	0	0	0	0	0
0°-90°	5071.4	100.0	60.4							
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°	5071.4	100.0	60.4							



TEST NUMBER: 108P146

CATALOG NUMBER: 2GC-332PB2S-PAF

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533	2533	2533	2533	2533
2.5°	2527	2530	2532	2539	2539
5°	2524	2528	2538	2552	2553
7.5°	2508	2521	2543	2564	2566
10°	2488	2508	2544	2576	2579
12.5°	2461	2487	2538	2578	2581
15°	2420	2458	2525	2568	2570
17.5°	2378	2424	2498	2547	2556
20°	2323	2385	2461	2519	2519
22.5°	2269	2338	2417	2475	2489
25°	2208	2286	2368	2439	2452
27.5°	2140	2222	2305	2403	2439
30°	2069	2159	2249	2373	2418
32.5°	1990	2083	2192	2335	2381
35°	1907	2003	2133	2279	2319
37.5°	1810	1918	2073	2203	2256
40°	1716	1831	2003	2125	2182
42.5°	1612	1734	1907	2034	2094
45°	1489	1619	1778	1916	2005
47.5°	1346	1439	1584	1733	1873
50°	1033	1134	1285	1369	1522
52.5°	533	702	861	862	664
55°	133	276	409	278	143
57.5°	19	53	120	43	14
60°	4	7	18	4	3
62.5°	3	3	3	2	2
65°	3	3	2	2	2
67.5°	3	2	2	2	1
70°	2	2	1	2	1
72.5°	1	2	1	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	0
80°	1	1	1	0	0
82.5°	0	1	0	0	0
85°	0	0	0	0	0
87.5°	0	0	0	0	0
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: 108P146

CATALOG NUMBER: 2GC-332PB2S-PAF

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)