

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: 117P108

Luminaire Tested: **2GCAPL-332PB2S**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 117P108
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCAPL-332PB2S
Description: 2 X 4 Recessed Air Supply Convertible Body Luminaire
with 1.5" x 1.5" x 1" Plastic Parabolic Louver.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-3P32-TP Electronic - L.O.B.F. = 89.5

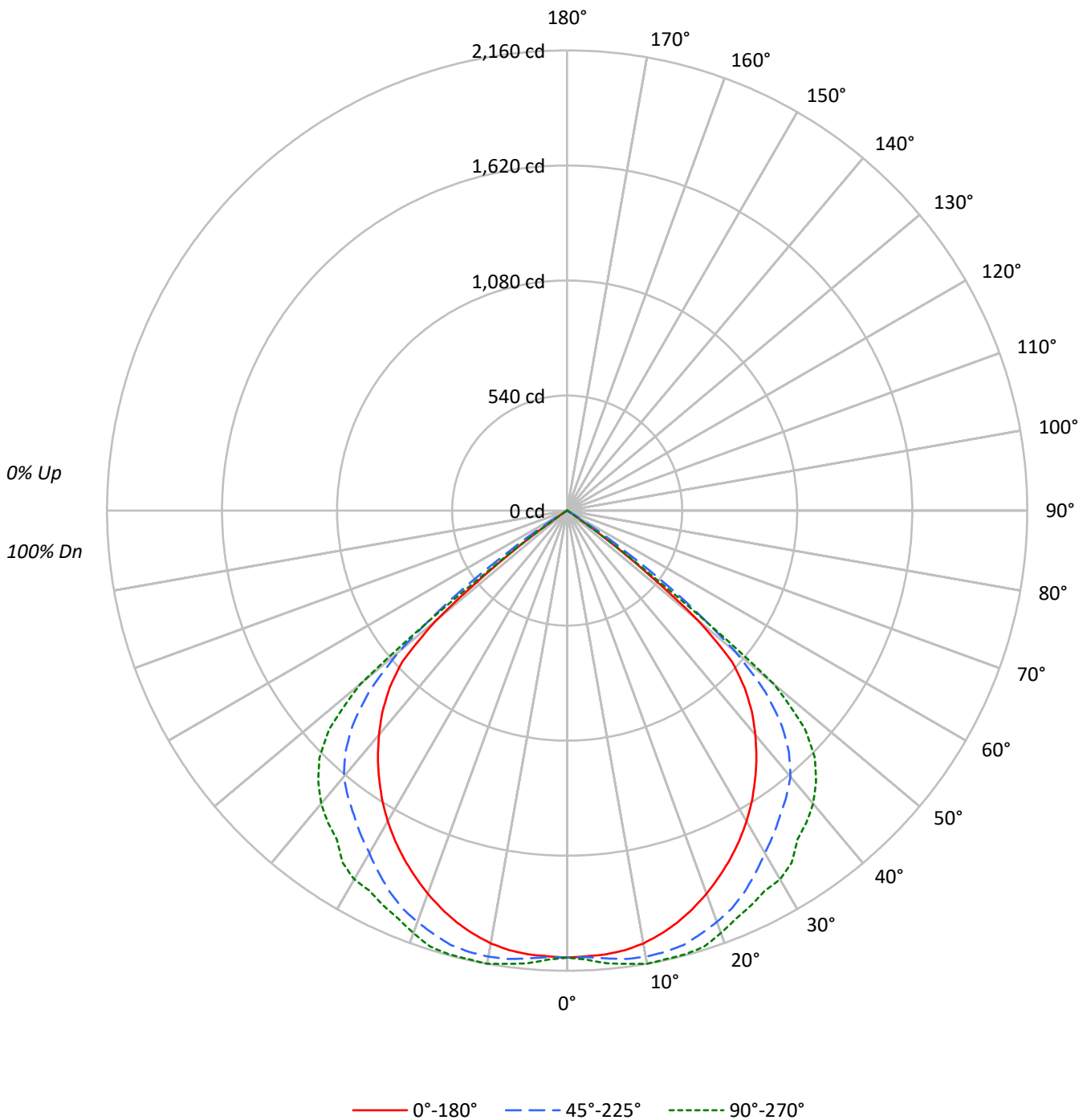
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 4148.5 lumens
Efficiency: 49.4%
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.39 / 1.4
Luminous Opening: Rectangular (W 1.72' x L: 3.71' x H: 0')
CIE Type: Direct

Input Watts (W): 87.3
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	59	59	59	59	57	57	57	57	55	55	55	53	53	53	50	50	50	49
1	55	54	52	51	54	53	51	50	51	50	49	49	48	47	47	46	46	45
2	52	49	46	44	51	48	46	44	46	45	43	45	43	42	43	42	41	40
3	48	44	41	39	47	44	41	39	42	40	38	41	39	37	40	38	37	36
4	45	40	37	34	44	40	37	34	39	36	34	38	35	33	37	35	33	32
5	42	37	33	31	41	36	33	30	35	32	30	34	32	30	34	31	30	29
6	39	34	30	27	38	33	30	27	32	29	27	32	29	27	31	29	27	26
7	37	31	27	25	36	30	27	25	30	27	24	29	26	24	28	26	24	23
8	34	28	25	22	33	28	25	22	27	24	22	27	24	22	26	24	22	21
9	32	26	23	20	31	26	22	20	25	22	20	25	22	20	24	22	20	19
10	30	24	21	18	29	24	21	18	24	20	18	23	20	18	23	20	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3543	3543	3543
5°	3545	3577	3616
10°	3538	3646	3704
15°	3498	3691	3768
20°	3438	3693	3792
25°	3367	3676	3809
30°	3284	3621	3898
35°	3173	3598	3886
40°	3029	3593	3959
45°	2816	3401	3929
50°	2118	2709	3326
55°	271	948	230
60°	14	44	10
65°	12	8	8
70°	10	10	10
75°	7	7	7
80°	10	10	0
85°	19	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	201.7	4.9	2.4	0°	2098	2098	2098	2098	2098	
10°-20°	591.1	14.2	7.0	5°	2091	2098	2110	2123	2133	199
20°-30°	901.0	21.7	10.7	15°	2001	2050	2111	2141	2155	564
30°-40°	1089.8	26.3	13.0	25°	1807	1896	1973	2023	2044	832
40°-50°	1067.4	25.7	12.7	35°	1539	1645	1745	1865	1885	961
50°-60°	292.9	7.1	3.5	45°	1179	1300	1424	1568	1645	886
60°-70°	2.8	0.1	0.0	55°	92	204	322	190	78	198
70°-80°	1.3	0.0	0.0	65°	3	3	2	2	2	3
80°-90°	0.5	0.0	0.0	75°	1	1	1	1	1	1
90°-100°	0.0	0.0	0.0	85°	1	1	0	0	0	1
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°	1693.8	40.8	20.2	165°	0	0	0	0	0	0
0°-40°	2783.6	67.1	33.1	175°	0	0	0	0	0	0
0°-60°	4143.9	99.9	49.3	180°	0	0	0	0	0	0
0°-90°	4148.5	100.0	49.4							
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°	4148.5	100.0	49.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2098	2098	2098	2098	2098
2.5°	2094	2098	2098	2103	2110
5°	2091	2098	2110	2123	2133
7.5°	2081	2096	2123	2137	2146
10°	2063	2090	2126	2149	2160
12.5°	2035	2075	2122	2149	2156
15°	2001	2050	2111	2141	2155
17.5°	1960	2019	2084	2134	2145
20°	1913	1983	2055	2106	2110
22.5°	1862	1942	2021	2065	2073
25°	1807	1896	1973	2023	2044
27.5°	1748	1842	1916	1988	2011
30°	1684	1782	1857	1950	1999
32.5°	1614	1715	1803	1925	1960
35°	1539	1645	1745	1865	1885
37.5°	1459	1570	1691	1788	1845
40°	1374	1491	1630	1739	1796
42.5°	1284	1404	1541	1666	1729
45°	1179	1300	1424	1568	1645
47.5°	1050	1149	1264	1406	1513
50°	806	899	1031	1095	1266
52.5°	405	553	694	691	493
55°	92	204	322	190	78
57.5°	12	33	90	22	6
60°	4	4	13	4	3
62.5°	3	3	3	3	3
65°	3	3	2	2	2
67.5°	3	2	2	2	2
70°	2	2	2	2	2
72.5°	2	2	2	1	1
75°	1	1	1	1	1
77.5°	1	1	1	1	0
80°	1	1	1	1	0
82.5°	1	1	1	0	0
85°	1	1	0	0	0
87.5°	0	1	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



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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)