

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: 108P162

Luminaire Tested: **2GCXR-332A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 108P162
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GCXR-332A
Description: 2 X 4 Recessed Body Luminaire with a .095 pattern 12
acrylic lens in a Regressed Natural Aluminum Door Frame.
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%

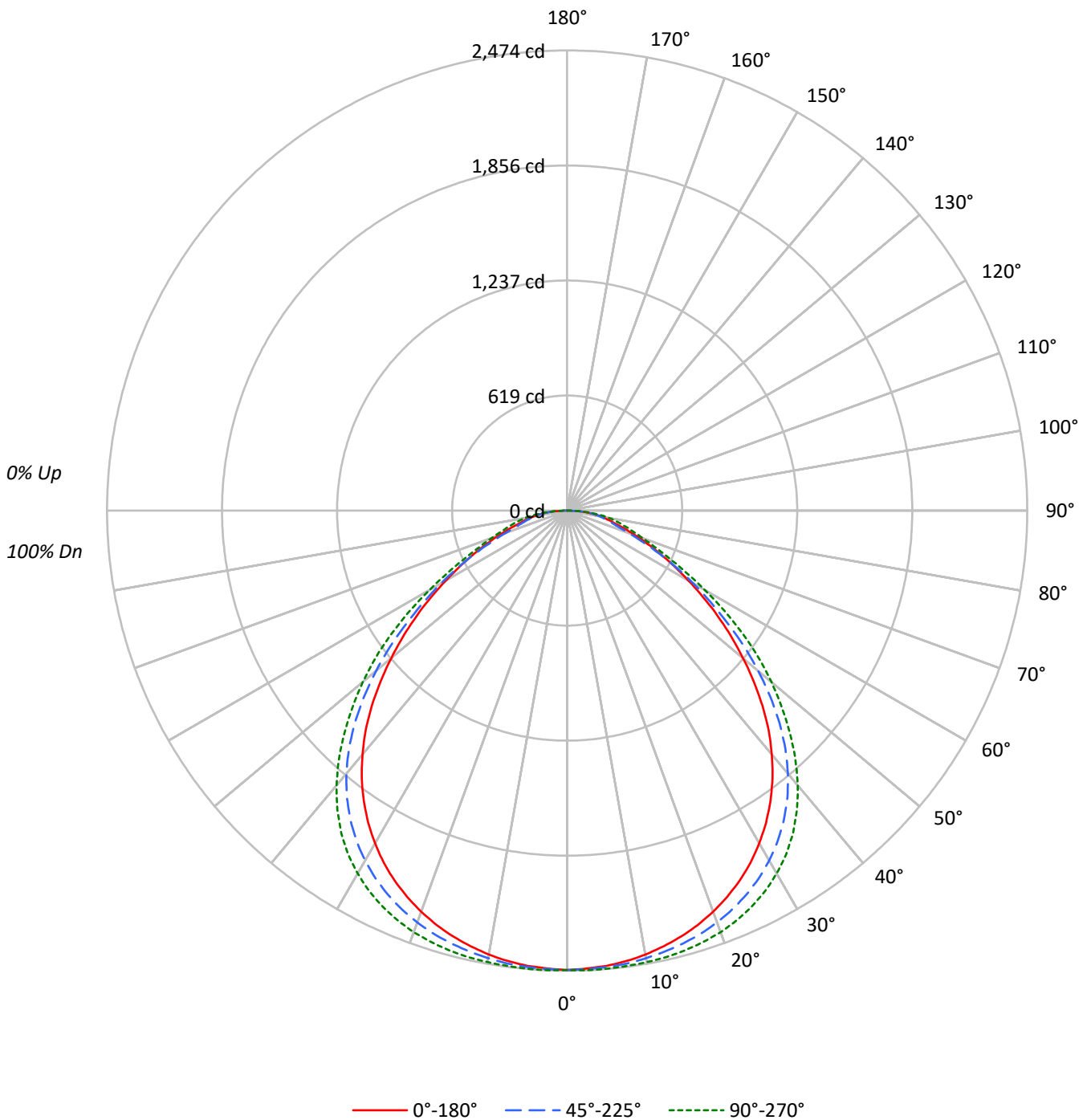
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6374.1 lumens
Efficiency: 75.9%
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.34 / 1.37
Luminous Opening: Rectangular (W 1.75' x L: 3.78' 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	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	61	66	63	59	64	61	58	62	59	57	55				
3	70	62	56	52	68	61	56	51	59	54	50	57	53	50	55	52	49	47				
4	64	56	49	44	63	55	49	44	53	48	44	51	47	43	49	46	42	41				
5	59	50	43	39	58	49	43	38	48	42	38	46	41	38	45	41	37	36				
6	55	45	39	34	53	44	38	34	43	38	33	42	37	33	41	36	33	31				
7	51	41	35	30	50	40	34	30	39	34	30	38	33	30	37	33	29	28				
8	47	37	31	27	46	37	31	27	36	31	27	35	30	27	34	30	26	25				
9	44	34	28	24	43	34	28	24	33	28	24	32	27	24	32	27	24	23				
10	42	32	26	22	41	31	26	22	31	25	22	30	25	22	29	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4019	4019	4019
5°	4013	4023	4039
10°	4005	4038	4073
15°	3993	4058	4124
20°	3974	4081	4177
25°	3941	4092	4217
30°	3882	4083	4233
35°	3786	4034	4205
40°	3637	3923	4097
45°	3417	3714	3901
50°	3126	3395	3630
55°	2803	2979	3265
60°	2451	2548	2779
65°	2133	2091	2326
70°	1860	1670	2046
75°	1672	1515	1999
80°	1734	1696	2155
85°	1886	1886	2203



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	234.6	3.7	2.8	0°	2470	2470	2470	2470	2470	
10°-20°	680.5	10.7	8.1	5°	2457	2458	2463	2469	2473	233
20°-30°	1047.9	16.4	12.5	15°	2370	2382	2409	2435	2448	669
30°-40°	1260.5	19.8	15.0	25°	2195	2222	2279	2327	2349	1010
40°-50°	1230.1	19.3	14.6	35°	1906	1950	2031	2091	2117	1189
50°-60°	945.2	14.8	11.3	45°	1485	1533	1614	1669	1695	1142
60°-70°	567.9	8.9	6.8	55°	988	996	1050	1107	1151	884
70°-80°	296.6	4.7	3.5	65°	554	534	543	606	604	555
80°-90°	110.9	1.7	1.3	75°	266	261	241	302	318	290
90°-100°	0.0	0.0	0.0	85°	101	98	101	115	118	99
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	7
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°	1962.9	30.8	23.4	165°	0	0	0	0	0	0
0°-40°	3223.4	50.6	38.4	175°	0	0	0	0	0	0
0°-60°	5398.7	84.7	64.3	180°	0	0	0	0	0	0
0°-90°	6374.1	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°	6374.1	100.0	75.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2470	2470	2470	2470	2470
2.5°	2464	2465	2467	2471	2474
5°	2457	2458	2463	2469	2473
7.5°	2443	2447	2456	2464	2469
10°	2424	2430	2444	2458	2465
12.5°	2399	2408	2428	2449	2459
15°	2370	2382	2409	2435	2448
17.5°	2336	2351	2386	2417	2432
20°	2295	2313	2357	2394	2412
22.5°	2248	2271	2321	2364	2384
25°	2195	2222	2279	2327	2349
27.5°	2135	2166	2230	2281	2306
30°	2066	2103	2173	2227	2253
32.5°	1990	2031	2107	2164	2191
35°	1906	1950	2031	2091	2117
37.5°	1814	1860	1945	2006	2029
40°	1712	1759	1847	1907	1929
42.5°	1604	1651	1736	1793	1817
45°	1485	1533	1614	1669	1695
47.5°	1361	1406	1481	1536	1566
50°	1235	1272	1341	1399	1434
52.5°	1111	1134	1197	1254	1297
55°	988	996	1050	1107	1151
57.5°	868	865	911	963	1001
60°	753	745	783	834	854
62.5°	650	634	659	714	721
65°	554	534	543	606	604
67.5°	468	445	437	508	508
70°	391	370	351	427	430
72.5°	324	309	286	360	368
75°	266	261	241	302	318
77.5°	221	221	209	253	274
80°	185	182	181	210	230
82.5°	147	141	145	167	178
85°	101	98	101	115	118
87.5°	50	48	48	54	52
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)