

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: 220P139

Luminaire Tested: **2EP3GX-332ST312I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 220P139
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332ST312I
Description: 2 X 4 Recessed Convertible Body Luminaire with a 36 cell
Parabolic louver with ACA TBP Cross Vanes and Alanod 320G/2
side members & longitudinal members
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. = 87.6

Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 5614.8 lumens
Efficiency: 66.8%
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.62 / 1.48
Luminous Opening: Rectangular (W 1.74' x L: 3.74' x H: 0')
CIE Type: Direct

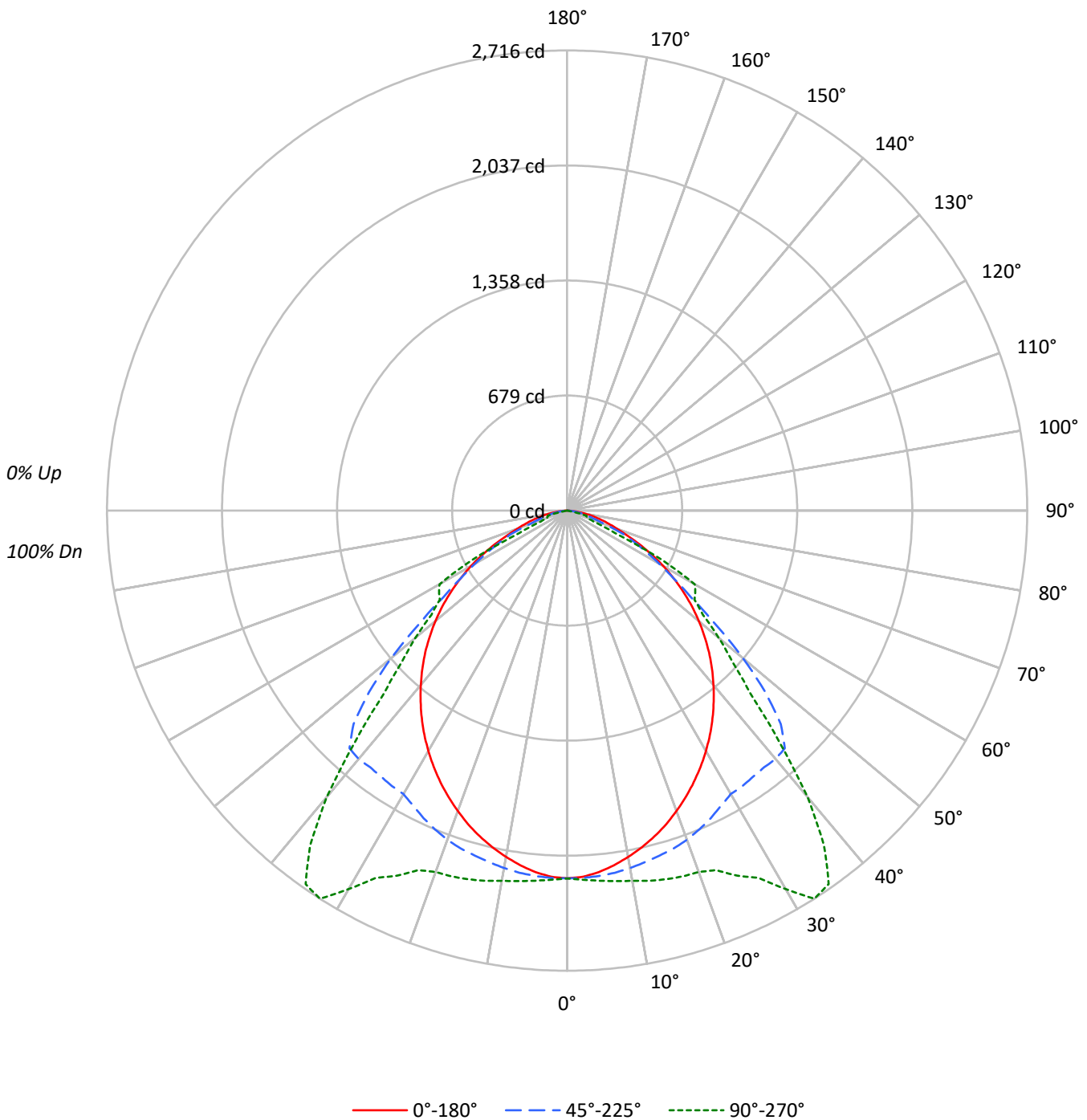
Input Watts (W): 84
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	80	80	80	78	78	78	78	74	74	74		71	71	71		68	68	68	67
1	74	71	69	66	72	70	67	65	67	65	63		64	63	61		62	61	60	58
2	68	63	59	56	66	62	58	55	60	56	54		57	55	53		55	53	51	50
3	62	56	51	47	61	55	50	47	53	49	46		51	48	45		50	47	44	43
4	57	50	45	41	56	49	44	40	48	43	40		46	42	39		45	41	39	37
5	53	45	39	35	52	44	39	35	43	38	35		42	38	34		40	37	34	33
6	49	41	35	31	48	40	35	31	39	34	31		38	34	30		37	33	30	29
7	46	37	31	27	44	36	31	27	35	31	27		34	30	27		34	30	27	26
8	42	34	28	25	41	33	28	25	32	28	24		32	27	24		31	27	24	23
9	40	31	26	22	39	31	26	22	30	25	22		29	25	22		28	25	22	21
10	37	29	23	20	36	28	23	20	28	23	20		27	23	20		26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3591	3591	3591
5°	3557	3595	3641
10°	3487	3598	3727
15°	3409	3610	3858
20°	3322	3638	3996
25°	3229	3657	4340
30°	3128	3690	4926
35°	3021	3869	5434
40°	2902	4133	4763
45°	2770	4171	3584
50°	2612	3489	3006
55°	2417	2578	2644
60°	2167	2077	2878
65°	1843	1699	1217
70°	1504	1156	609
75°	1310	856	754
80°	1086	657	76
85°	854	455	57



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	206.1	3.7	2.5	0°	2171	2171	2171	2171	2171	
10°-20°	597.7	10.6	7.1	5°	2142	2148	2165	2183	2193	202
20°-30°	941.9	16.8	11.2	15°	1991	2027	2108	2204	2253	561
30°-40°	1244.4	22.2	14.8	25°	1769	1842	2004	2211	2378	814
40°-50°	1163.3	20.7	13.8	35°	1496	1610	1916	2477	2691	935
50°-60°	827.3	14.7	9.8	45°	1184	1318	1783	1579	1532	912
60°-70°	449.1	8.0	5.3	55°	838	1017	894	833	917	748
70°-80°	154.4	2.7	1.8	65°	471	529	434	379	311	469
80°-90°	30.7	0.5	0.4	75°	205	188	134	110	118	219
90°-100°	0.0	0.0	0.0	85°	45	38	24	14	3	51
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	3
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°	1745.6	31.1	20.8	165°	0	0	0	0	0	0
0°-40°	2990.0	53.3	35.6	175°	0	0	0	0	0	0
0°-60°	4980.6	88.7	59.3	180°	0	0	0	0	0	0
0°-90°	5614.8	100.0	66.8							
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°	5614.8	100.0	66.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171	2171	2171	2171	2171
2.5°	2163	2165	2170	2176	2181
5°	2142	2148	2165	2183	2193
7.5°	2112	2124	2156	2189	2205
10°	2076	2096	2142	2193	2219
12.5°	2036	2063	2125	2200	2238
15°	1991	2027	2108	2204	2253
17.5°	1942	1986	2091	2201	2264
20°	1887	1942	2067	2195	2270
22.5°	1830	1893	2037	2185	2296
25°	1769	1842	2004	2211	2378
27.5°	1705	1789	1965	2264	2443
30°	1638	1733	1932	2303	2579
32.5°	1569	1674	1927	2394	2716
35°	1496	1610	1916	2477	2691
37.5°	1421	1541	1910	2398	2491
40°	1344	1470	1914	2184	2206
42.5°	1265	1396	1902	1911	1855
45°	1184	1318	1783	1579	1532
47.5°	1100	1241	1586	1298	1323
50°	1015	1169	1356	1117	1168
52.5°	928	1090	1105	972	1011
55°	838	1017	894	833	917
57.5°	747	936	745	742	897
60°	655	822	628	695	870
62.5°	562	681	520	604	637
65°	471	529	434	379	311
67.5°	382	396	349	223	167
70°	311	299	239	161	126
72.5°	257	239	174	130	122
75°	205	188	134	110	118
77.5°	157	143	99	80	45
80°	114	102	69	41	8
82.5°	76	67	44	26	5
85°	45	38	24	14	3
87.5°	19	15	9	4	1
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)