

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: 115P152

Luminaire Tested: **EP3GX-232S28M/I-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 115P152
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-232S28M/I-PAF
Description: 1 X 4 Recessed Convertible Body Luminaire with a 3" deep
16 cell specular low iridescent parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 87.6

Summary

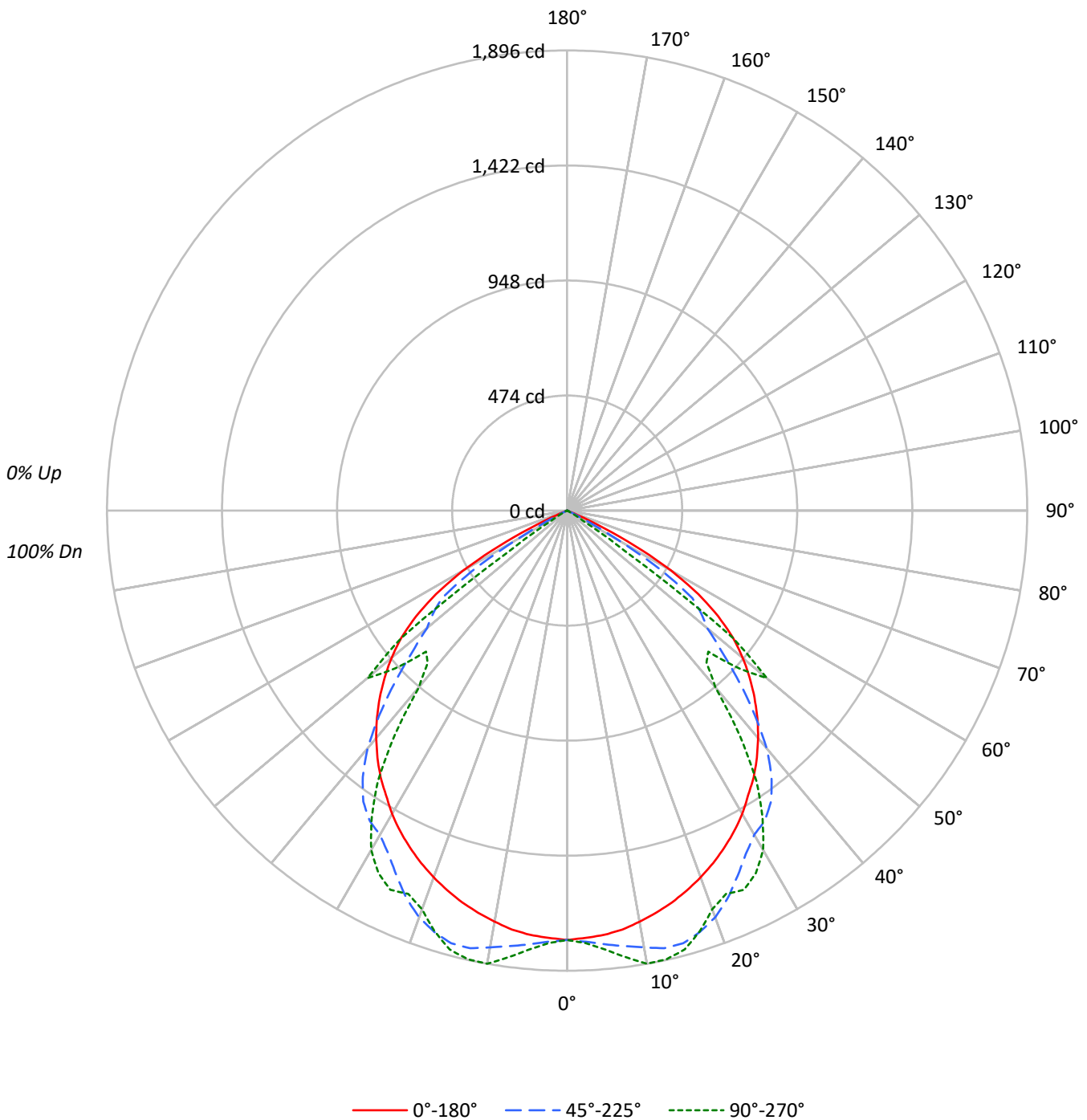
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3698.1 lumens
Efficiency: 66.0%
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.3
Luminous Opening: Rectangular (W 0.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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	50	30	10	0		
RCR																										
0	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67	66					66			
1	74	72	70	68	72	70	68	67	67	66	64	65	64	63	63	62	61	59					59			
2	69	65	61	58	67	63	60	58	61	59	56	59	57	55	57	55	54	53					53			
3	64	58	54	51	62	57	53	50	55	52	49	54	51	48	52	50	48	46					46			
4	59	53	48	44	58	52	47	44	50	46	43	49	46	43	48	45	42	41					41			
5	55	48	43	39	54	47	42	39	46	42	38	45	41	38	43	40	38	36					36			
6	51	43	38	35	50	43	38	35	42	37	34	41	37	34	40	36	34	33					33			
7	48	40	35	31	47	39	34	31	38	34	31	37	33	31	37	33	30	29					29			
8	44	36	31	28	44	36	31	28	35	31	28	34	31	28	34	30	28	26					26			
9	42	34	29	25	41	33	29	25	33	28	25	32	28	25	31	28	25	24					24			
10	39	31	26	23	38	31	26	23	30	26	23	30	26	23	29	25	23	22					22			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6963	6963	6963
5°	6935	7089	7176
10°	6875	7303	7578
15°	6810	7523	7629
20°	6736	7469	7322
25°	6654	7214	7488
30°	6559	7009	7341
35°	6439	7035	6531
40°	6290	6572	4876
45°	6079	5606	4576
50°	5787	4617	6577
55°	5216	4324	2004
60°	3889	1921	157
65°	1267	112	65
70°	92	58	46
75°	61	46	30
80°	45	23	23
85°	45	45	45



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	171.8	4.6	3.1	0°	1769	1769	1769	1769	1769	
10°-20°	507.5	13.7	9.1	5°	1755	1765	1794	1813	1816	166
20°-30°	763.0	20.6	13.6	15°	1671	1737	1846	1872	1872	471
30°-40°	874.4	23.6	15.6	25°	1532	1665	1661	1675	1724	706
40°-50°	774.9	21.0	13.8	35°	1340	1451	1464	1400	1359	837
50°-60°	530.7	14.4	9.5	45°	1092	1139	1007	809	822	841
60°-70°	71.8	1.9	1.3	55°	760	737	630	537	292	665
70°-80°	3.2	0.1	0.1	65°	136	94	12	8	7	178
80°-90°	0.8	0.0	0.0	75°	4	3	3	2	2	4
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	1	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°	1442.3	39.0	25.8	165°	0	0	0	0	0	0
0°-40°	2316.6	62.6	41.4	175°	0	0	0	0	0	0
0°-60°	3622.3	98.0	64.7	180°	0	0	0	0	0	0
0°-90°	3698.1	100.0	66.0							
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°	3698.1	100.0	66.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769	1769	1769	1769	1769
2.5°	1762	1765	1778	1786	1784
5°	1755	1765	1794	1813	1816
7.5°	1741	1764	1810	1846	1856
10°	1720	1758	1827	1887	1896
12.5°	1697	1748	1847	1892	1893
15°	1671	1737	1846	1872	1872
17.5°	1641	1723	1820	1831	1817
20°	1608	1710	1783	1763	1748
22.5°	1572	1694	1729	1695	1710
25°	1532	1665	1661	1675	1724
27.5°	1490	1622	1594	1666	1684
30°	1443	1570	1542	1609	1615
32.5°	1389	1514	1515	1523	1499
35°	1340	1451	1464	1400	1359
37.5°	1284	1378	1384	1252	1170
40°	1224	1299	1279	1059	949
42.5°	1160	1219	1147	877	850
45°	1092	1139	1007	809	822
47.5°	1020	1061	869	805	964
50°	945	976	754	898	1074
52.5°	861	871	696	865	860
55°	760	737	630	537	292
57.5°	641	579	467	160	80
60°	494	400	244	43	20
62.5°	316	227	56	14	11
65°	136	94	12	8	7
67.5°	29	22	7	5	5
70°	8	7	5	4	4
72.5°	5	4	4	3	3
75°	4	3	3	2	2
77.5°	3	2	2	2	2
80°	2	2	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	0	0	0	1	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)