

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: 188P139

Luminaire Tested: **2EP3GX-232W26P-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P139
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-232W26P-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
12 cell white painted parabolic louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.22

Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4452.7 lumens
Efficiency: 79.5%
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.42 / 1.37
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

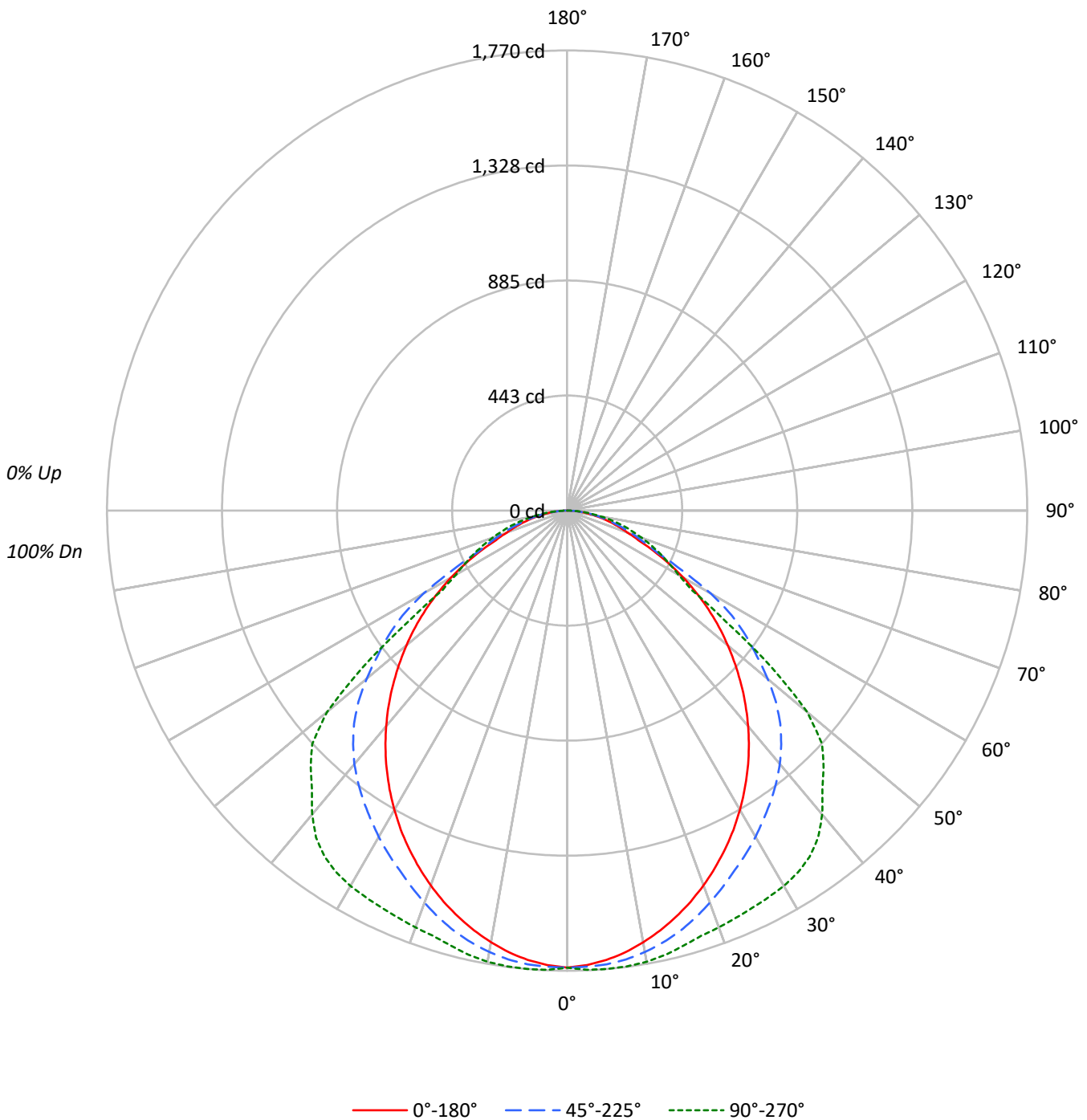
Input Watts (W): 58.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	95	95	95	95	92	92	92	92	88	88	88	85	85	85	81	81	81	80																			
1	87	84	81	78	85	82	79	77	79	76	74	76	74	72	73	71	70	68																			
2	80	74	69	65	78	72	68	64	70	66	62	67	64	61	65	62	60	58																			
3	73	65	59	54	71	64	58	54	62	57	53	60	56	52	58	54	51	50																			
4	67	58	52	47	66	57	51	46	55	50	46	53	49	45	52	48	44	43																			
5	62	52	45	40	60	51	45	40	50	44	40	48	43	39	47	42	39	37																			
6	57	47	40	35	56	46	40	35	45	39	35	44	39	35	43	38	34	33																			
7	53	43	36	31	52	42	36	31	41	35	31	40	35	31	39	34	31	29																			
8	50	39	33	28	48	39	32	28	38	32	28	37	31	28	36	31	28	26																			
9	46	36	30	25	45	36	29	25	35	29	25	34	29	25	33	28	25	23																			
10	44	33	27	23	43	33	27	23	32	27	23	31	26	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2918	2918	2918
5°	2891	2919	2949
10°	2842	2906	2970
15°	2781	2878	2976
20°	2710	2835	3014
25°	2632	2795	3088
30°	2547	2777	3195
35°	2454	2766	3295
40°	2347	2758	3307
45°	2223	2721	3275
50°	2084	2600	3114
55°	1922	2428	2165
60°	1716	2115	1640
65°	1438	1504	1555
70°	1194	1325	1475
75°	1103	1199	1417
80°	1004	1099	1290
85°	876	971	1124



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	166.2	3.7	3.0	0°	1758	1758	1758	1758	1758	
10°-20°	472.2	10.6	8.4	5°	1735	1740	1752	1759	1770	164
20°-30°	712.9	16.0	12.7	15°	1618	1637	1675	1709	1732	456
30°-40°	867.7	19.5	15.5	25°	1437	1469	1526	1623	1686	661
40°-50°	887.1	19.9	15.8	35°	1211	1248	1365	1525	1626	756
50°-60°	690.4	15.5	12.3	45°	947	996	1159	1280	1395	730
60°-70°	394.0	8.8	7.0	55°	664	728	839	814	748	592
70°-80°	203.5	4.6	3.6	65°	366	414	383	379	396	367
80°-90°	58.6	1.3	1.0	75°	172	177	187	207	221	183
90°-100°	0.0	0.0	0.0	85°	46	47	51	55	59	50
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°	1351.4	30.3	24.1	165°	0	0	0	0	0	0
0°-40°	2219.1	49.8	39.6	175°	0	0	0	0	0	0
0°-60°	3796.6	85.3	67.8	180°	0	0	0	0	0	0
0°-90°	4452.7	100.0	79.5							
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°	4452.7	100.0	79.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758	1758	1758	1758	1758
2.5°	1750	1751	1756	1759	1768
5°	1735	1740	1752	1759	1770
7.5°	1714	1722	1741	1755	1768
10°	1686	1698	1724	1746	1762
12.5°	1654	1670	1702	1731	1750
15°	1618	1637	1675	1709	1732
17.5°	1578	1601	1642	1684	1715
20°	1534	1560	1605	1663	1706
22.5°	1487	1517	1566	1644	1696
25°	1437	1469	1526	1623	1686
27.5°	1385	1419	1489	1602	1677
30°	1329	1365	1449	1580	1667
32.5°	1271	1308	1407	1556	1651
35°	1211	1248	1365	1525	1626
37.5°	1148	1187	1321	1484	1586
40°	1083	1124	1273	1430	1526
42.5°	1016	1061	1219	1360	1453
45°	947	996	1159	1280	1395
47.5°	877	930	1089	1213	1330
50°	807	863	1007	1136	1206
52.5°	736	797	920	1007	992
55°	664	728	839	814	748
57.5°	590	656	752	614	567
60°	517	580	637	484	494
62.5°	441	500	499	427	444
65°	366	414	383	379	396
67.5°	296	328	319	334	350
70°	246	257	273	289	304
72.5°	208	214	229	246	260
75°	172	177	187	207	221
77.5°	138	142	150	165	177
80°	105	108	115	127	135
82.5°	75	77	82	90	96
85°	46	47	51	55	59
87.5°	20	20	21	23	24
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)