

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: 104P231

Luminaire Tested: **2PGX-232S26VDT-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 104P231
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2PGX-232S26VDT-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with
a 4" deep 12 cell parabolic VDT louver.
Light Source: Two - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B232I120RH Electronic - L.O.B.F. = 88.1

Summary

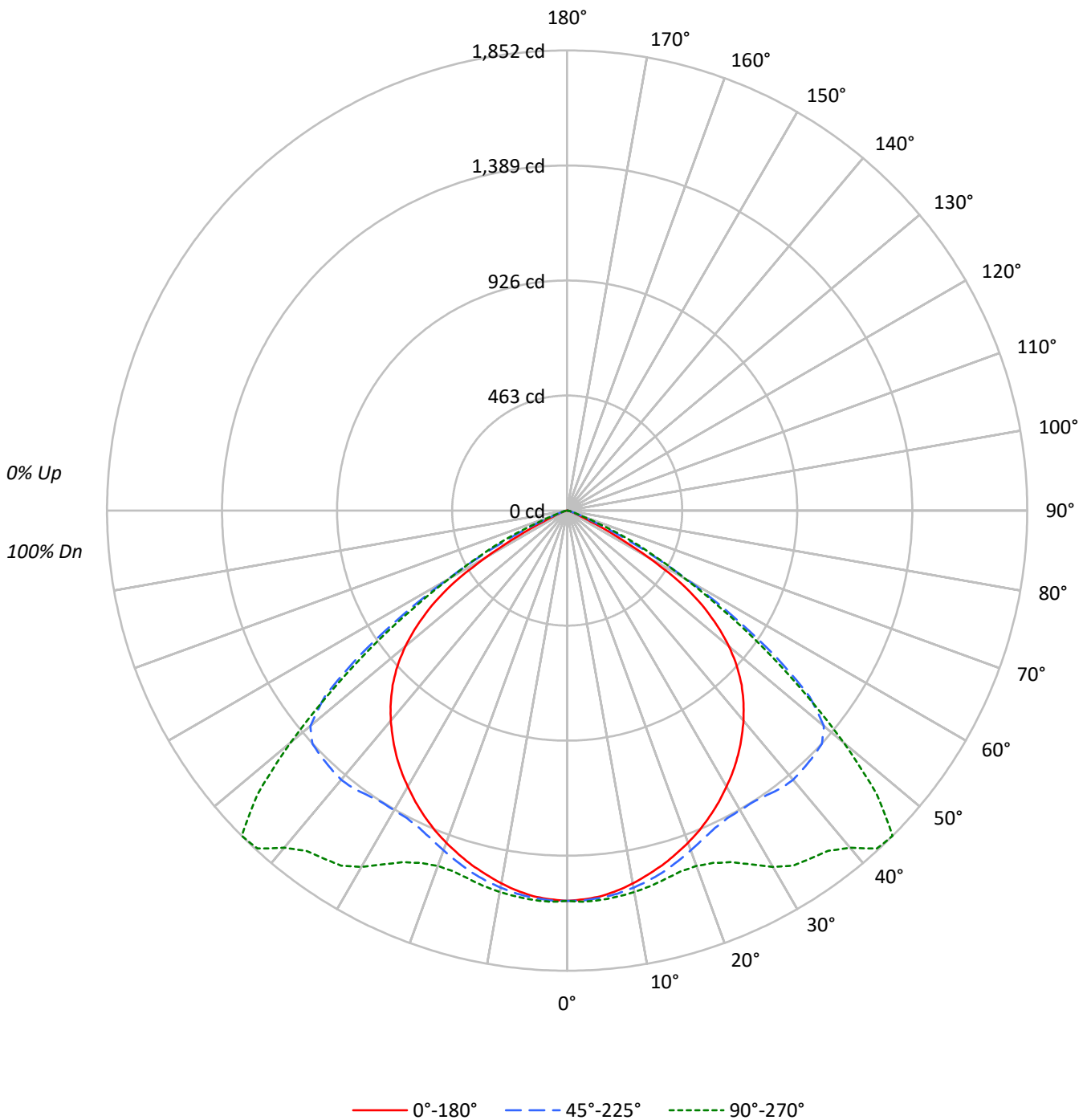
Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4254.7 lumens
Efficiency: 76.0%
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.71 / 1.62
Luminous Opening: Rectangular (W 1.73' x L: 3.76' x H: 0')
CIE Type: Direct

Input Watts (W): 59.6
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	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76	76	76	76	76	76	76													
1	84	81	79	76	82	80	77	75	77	75	73	74	72	71	71	70	69	67	67	67	67	67	67	67													
2	78	72	68	64	76	71	67	64	68	65	62	66	63	61	64	61	59	58	58	58	58	58	58	58													
3	71	64	59	55	70	63	58	54	61	57	53	59	55	52	57	54	51	50	50	50	50	50	50	50													
4	66	57	51	47	64	56	51	46	55	50	46	53	49	45	51	48	45	43	43	43	43	43	43	43													
5	60	51	45	40	59	51	45	40	49	44	40	48	43	39	46	42	39	37	37	37	37	37	37	37													
6	56	46	40	35	54	46	39	35	44	39	35	43	38	35	42	38	34	33	33	33	33	33	33	33													
7	52	42	35	31	50	41	35	31	40	35	31	39	34	31	38	34	30	29	29	29	29	29	29	29													
8	48	38	32	28	47	38	32	27	37	31	27	36	31	27	35	30	27	26	26	26	26	26	26	26													
9	45	35	29	25	44	34	29	25	34	28	24	33	28	24	32	28	24	23	23	23	23	23	23	23													
10	42	32	26	22	41	32	26	22	31	26	22	30	25	22	30	25	22	21	21	21	21	21	21	21													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2597	2597	2597
5°	2585	2595	2610
10°	2558	2586	2616
15°	2529	2573	2625
20°	2503	2559	2677
25°	2476	2569	2847
30°	2449	2657	3160
35°	2421	2823	3448
40°	2382	3053	3821
45°	2321	3272	4329
50°	2186	3469	3736
55°	1910	2951	2784
60°	1253	1878	1805
65°	411	817	1068
70°	150	227	280
75°	89	115	128
80°	67	76	76
85°	57	57	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	148.5	3.5	2.7	0°	1571	1571	1571	1571	1571	
10°-20°	425.0	10.0	7.6	5°	1558	1560	1564	1567	1573	148
20°-30°	666.3	15.7	11.9	15°	1478	1486	1504	1522	1534	417
30°-40°	892.8	21.0	15.9	25°	1358	1373	1409	1503	1561	626
40°-50°	1058.0	24.9	18.9	35°	1200	1226	1399	1616	1709	750
50°-60°	806.2	18.9	14.4	45°	993	1086	1400	1695	1852	762
60°-70°	231.8	5.4	4.1	55°	663	891	1024	941	966	576
70°-80°	22.6	0.5	0.4	65°	105	150	209	256	273	142
80°-90°	3.3	0.1	0.1	75°	14	17	18	20	20	17
90°-100°	0.0	0.0	0.0	85°	3	3	3	2	2	3
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°	1239.9	29.1	22.1	165°	0	0	0	0	0	0
0°-40°	2132.7	50.1	38.1	175°	0	0	0	0	0	0
0°-60°	3997.0	93.9	71.4	180°	0	0	0	0	0	0
0°-90°	4254.7	100.0	76.0							
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°	4254.7	100.0	76.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1571	1571	1571	1571	1571
2.5°	1566	1567	1570	1569	1576
5°	1558	1560	1564	1567	1573
7.5°	1543	1547	1555	1560	1567
10°	1524	1530	1541	1551	1559
12.5°	1501	1509	1524	1539	1548
15°	1478	1486	1504	1522	1534
17.5°	1451	1460	1480	1505	1522
20°	1423	1433	1455	1493	1522
22.5°	1392	1404	1430	1494	1535
25°	1358	1373	1409	1503	1561
27.5°	1322	1338	1396	1525	1605
30°	1283	1302	1392	1561	1656
32.5°	1243	1263	1391	1596	1694
35°	1200	1226	1399	1616	1709
37.5°	1153	1189	1410	1616	1726
40°	1104	1154	1415	1629	1771
42.5°	1051	1119	1408	1671	1845
45°	993	1086	1400	1695	1852
47.5°	927	1050	1390	1620	1691
50°	850	1008	1349	1407	1453
52.5°	762	957	1230	1156	1201
55°	663	891	1024	941	966
57.5°	544	778	788	741	739
60°	379	579	568	555	546
62.5°	220	326	370	391	395
65°	105	150	209	256	273
67.5°	52	71	100	144	137
70°	31	39	47	64	58
72.5°	21	25	28	33	32
75°	14	17	18	20	20
77.5°	10	11	12	13	13
80°	7	7	8	8	8
82.5°	4	4	5	5	5
85°	3	3	3	2	2
87.5°	1	1	1	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)