

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: P30887

Luminaire Tested: **2GC8-232PB1S-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30887
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-232PB1S-UNV-EB81
Description: [METALUX 2' X 4' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND SILVER PARABOLIC PB1S,
1/2 X 1/2 X 1/2 SILVER PARABOLIC LOUVER, SHIELDING MEDIA
Light Source: (2) T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP3x32T8/UNV ISN-SC

Summary

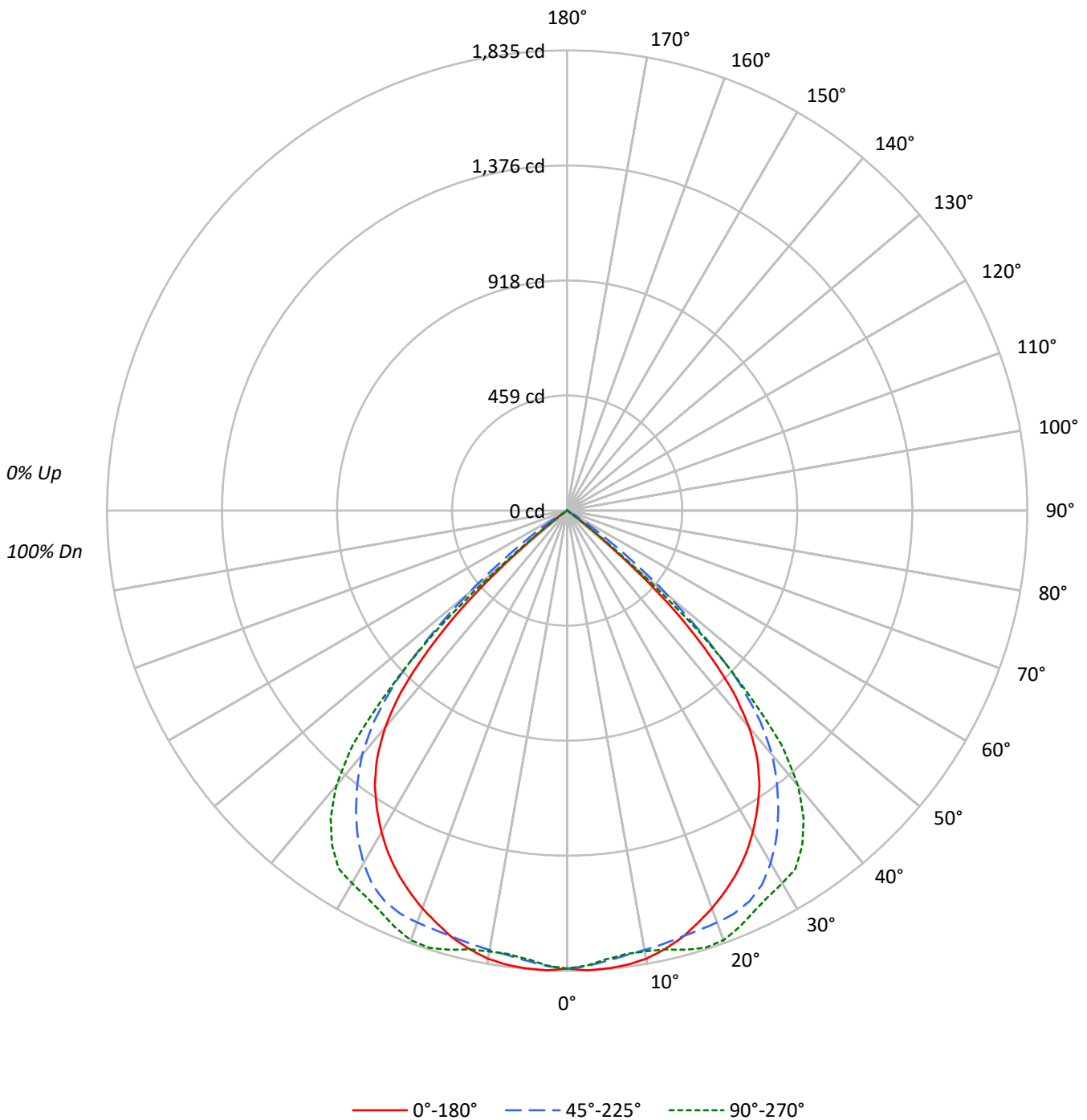
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 3157.6 lumens
Efficiency: 50.9%
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.38 / 1.3
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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	61	61	61	61	59	59	59	59	57	57	57	54	54	54	52	52	52	51
1	57	56	54	53	56	55	53	52	53	51	50	51	50	49	49	48	48	47
2	54	51	49	47	53	50	48	46	48	47	45	47	45	44	45	44	43	42
3	50	47	44	41	49	46	43	41	44	42	40	43	41	40	42	40	39	38
4	47	43	39	37	46	42	39	37	41	38	36	40	37	36	39	37	35	34
5	44	39	36	33	43	39	35	33	38	35	32	37	34	32	36	34	32	31
6	41	36	32	30	40	35	32	30	35	32	29	34	31	29	33	31	29	28
7	39	33	29	27	38	33	29	27	32	29	27	31	29	27	31	28	26	26
8	36	31	27	24	36	30	27	24	30	27	24	29	26	24	29	26	24	23
9	34	28	25	22	33	28	25	22	27	24	22	27	24	22	27	24	22	21
10	32	26	23	21	32	26	23	20	26	23	20	25	22	20	25	22	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2930	2930	2930
5°	2952	2904	2893
10°	2957	2899	2908
15°	2930	2924	3012
20°	2882	2985	3113
25°	2827	3043	3121
30°	2744	3007	3179
35°	2619	2876	3199
40°	2367	2664	2999
45°	1761	2197	2244
50°	659	1288	851
55°	34	456	20
60°	13	45	10
65°	11	8	8
70°	9	9	5
75°	12	6	6
80°	18	9	9
85°	18	18	18



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	171.8	5.4	2.8	0°	1826	1826	1826	1826	1826	
10°-20°	500.8	15.9	8.1	5°	1833	1817	1803	1793	1796	174
20°-30°	778.1	24.6	12.6	15°	1764	1736	1760	1794	1813	497
30°-40°	917.9	29.1	14.8	25°	1597	1598	1719	1764	1763	734
40°-50°	681.4	21.6	11.0	35°	1337	1388	1468	1593	1633	828
50°-60°	102.1	3.2	1.6	45°	776	848	968	997	989	570
60°-70°	2.8	0.1	0.0	55°	12	41	163	29	7	51
70°-80°	1.6	0.0	0.0	65°	3	3	2	2	2	3
80°-90°	1.1	0.0	0.0	75°	2	2	1	1	1	2
90°-100°	0.1	0.0	0.0	85°	1	1	1	1	1	1
100°-110°	0.0	0.0	0.0	90°	1	1	1	1	1	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°	1450.8	45.9	23.4	165°	0	0	0	0	0	0
0°-40°	2368.6	75.0	38.2	175°	0	0	0	0	0	0
0°-60°	3152.1	99.8	50.8	180°	0	0	0	0	0	0
0°-90°	3157.5	100.0	50.9							
90°-120°	0.1	0.0	0.0							
90°-150°	0.1	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3157.6	100.0	50.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1826	1826	1826	1826	1826
2.5°	1835	1823	1818	1812	1816
5°	1833	1817	1803	1793	1796
7.5°	1827	1805	1789	1781	1784
10°	1815	1787	1779	1778	1785
12.5°	1792	1764	1770	1780	1792
15°	1764	1736	1760	1794	1813
17.5°	1726	1702	1753	1812	1828
20°	1688	1670	1748	1817	1823
22.5°	1644	1636	1740	1801	1797
25°	1597	1598	1719	1764	1763
27.5°	1543	1556	1682	1726	1736
30°	1481	1511	1623	1684	1716
32.5°	1411	1458	1552	1650	1694
35°	1337	1388	1468	1593	1633
37.5°	1245	1302	1374	1495	1549
40°	1130	1191	1272	1369	1432
42.5°	981	1043	1140	1210	1264
45°	776	848	968	997	989
47.5°	540	604	743	717	707
50°	264	362	516	450	341
52.5°	84	157	316	185	63
55°	12	41	163	29	7
57.5°	5	6	61	5	4
60°	4	4	14	3	3
62.5°	3	3	3	3	2
65°	3	3	2	2	2
67.5°	3	2	2	2	1
70°	2	2	2	2	1
72.5°	2	2	2	1	1
75°	2	2	1	1	1
77.5°	2	2	1	1	1
80°	2	1	1	1	1
82.5°	1	1	1	1	1
85°	1	1	1	1	1
87.5°	1	1	1	1	1
90°	1	1	1	1	1
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)