

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: P30880-R2

Luminaire Tested: **2GC8-332PB1S-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30880-R2
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-332PB1S-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: (3) T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP3x32T8/UNV ISN-SC

Summary

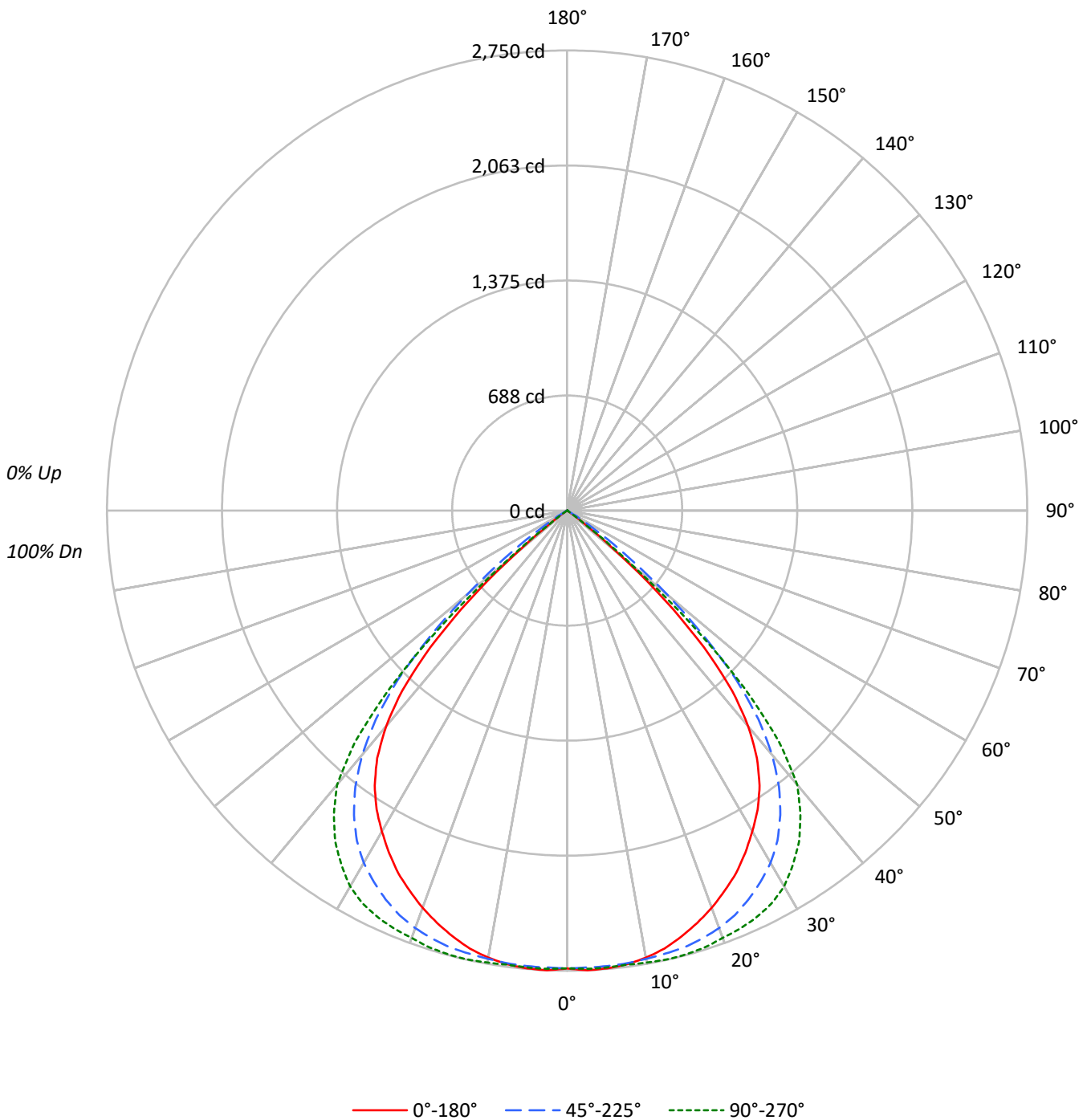
Lumens per Lamp: 3100 (3 lamps)
Luminaire Lumens: 4760.9 lumens
Efficiency: 51.2%
Efficacy: 57.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.37 / 1.29
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 83.1
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	60	60	60	60	57	57	57		54	54	54		52	52	52	51
1	58	56	55	53	56	55	54	52	53	52	51		51	50	49		49	48	48	47
2	54	51	49	47	53	50	48	46	49	47	45		47	46	44		46	44	43	42
3	51	47	44	41	50	46	43	41	45	42	40		43	41	40		42	41	39	38
4	47	43	40	37	46	42	39	37	41	38	36		40	38	36		39	37	35	35
5	44	39	36	33	43	39	35	33	38	35	33		37	34	32		36	34	32	31
6	42	36	32	30	41	36	32	30	35	32	30		34	31	29		33	31	29	28
7	39	33	30	27	38	33	29	27	32	29	27		32	29	27		31	28	27	26
8	36	31	27	25	36	30	27	25	30	27	24		29	26	24		29	26	24	23
9	34	28	25	23	34	28	25	22	28	25	22		27	24	22		27	24	22	21
10	32	26	23	21	32	26	23	21	26	23	21		25	22	20		25	22	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4390	4390	4390
5°	4423	4402	4415
10°	4420	4432	4469
15°	4379	4490	4562
20°	4313	4534	4641
25°	4231	4541	4747
30°	4102	4504	4806
35°	3927	4351	4732
40°	3525	3988	4480
45°	2623	3247	3395
50°	1006	1932	1248
55°	64	697	53
60°	19	87	19
65°	15	19	11
70°	19	14	9
75°	19	12	6
80°	28	18	9
85°	37	37	37



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	260.8	5.5	2.8	0°	2736	2736	2736	2736	2736	
10°-20°	761.4	16.0	8.2	5°	2746	2737	2733	2735	2741	261
20°-30°	1175.4	24.7	12.6	15°	2636	2653	2703	2738	2746	743
30°-40°	1377.6	28.9	14.8	25°	2390	2455	2565	2661	2681	1098
40°-50°	1015.3	21.3	10.9	35°	2005	2105	2221	2359	2416	1240
50°-60°	160.6	3.4	1.7	45°	1156	1273	1431	1471	1496	849
60°-70°	5.1	0.1	0.1	55°	23	76	249	73	19	80
70°-80°	2.6	0.1	0.0	65°	4	5	5	5	3	4
80°-90°	2.0	0.0	0.0	75°	3	3	2	2	1	3
90°-100°	0.1	0.0	0.0	85°	2	2	2	2	2	2
100°-110°	0.0	0.0	0.0	90°	1	1	1	1	1	1
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°	2197.5	46.2	23.6	165°	0	0	0	0	0	0
0°-40°	3575.2	75.1	38.4	175°	0	0	0	0	0	0
0°-60°	4751.0	99.8	51.1	180°	0	0	0	0	0	0
0°-90°	4760.8	100.0	51.2							
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°	4760.9	100.0	51.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2736	2736	2736	2736	2736
2.5°	2750	2738	2733	2735	2741
5°	2746	2737	2733	2735	2741
7.5°	2735	2730	2729	2728	2737
10°	2713	2713	2720	2732	2743
12.5°	2682	2689	2712	2738	2748
15°	2636	2653	2703	2738	2746
17.5°	2584	2610	2682	2730	2737
20°	2526	2563	2655	2713	2718
22.5°	2459	2511	2617	2687	2704
25°	2390	2455	2565	2661	2681
27.5°	2305	2386	2502	2621	2647
30°	2214	2307	2431	2566	2594
32.5°	2119	2220	2339	2484	2511
35°	2005	2105	2221	2359	2416
37.5°	1864	1961	2080	2207	2290
40°	1683	1792	1904	2026	2139
42.5°	1461	1569	1691	1803	1875
45°	1156	1273	1431	1471	1496
47.5°	795	921	1103	1064	1022
50°	403	563	774	651	500
52.5°	135	254	478	292	141
55°	23	76	249	73	19
57.5°	8	12	97	11	7
60°	6	6	27	6	6
62.5°	5	5	7	5	4
65°	4	5	5	5	3
67.5°	4	4	4	3	2
70°	4	4	3	3	2
72.5°	3	3	3	2	2
75°	3	3	2	2	1
77.5°	3	3	2	2	1
80°	3	3	2	2	1
82.5°	2	2	2	2	1
85°	2	2	2	2	2
87.5°	2	2	2	2	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)