

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: P31050

Luminaire Tested: **2GR5-328T5PB1S-UNV-EBT2**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P31050
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR5-328T5PB1S-UNV-EBT2
Description: METALUX 2' X 4' COMMERCIAL T5HO TROFFER WITH SILVER PARABOLIC
PB1S, 1/2 X 1/2 X 1/2 SILVER PARABOLIC LOUVER, SHIELDING MEDIA
Light Source: (3) DOUBLE BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F28W/T5/835/ECO
Ballast/Driver: -
(2) GE228MVPS-A

Summary

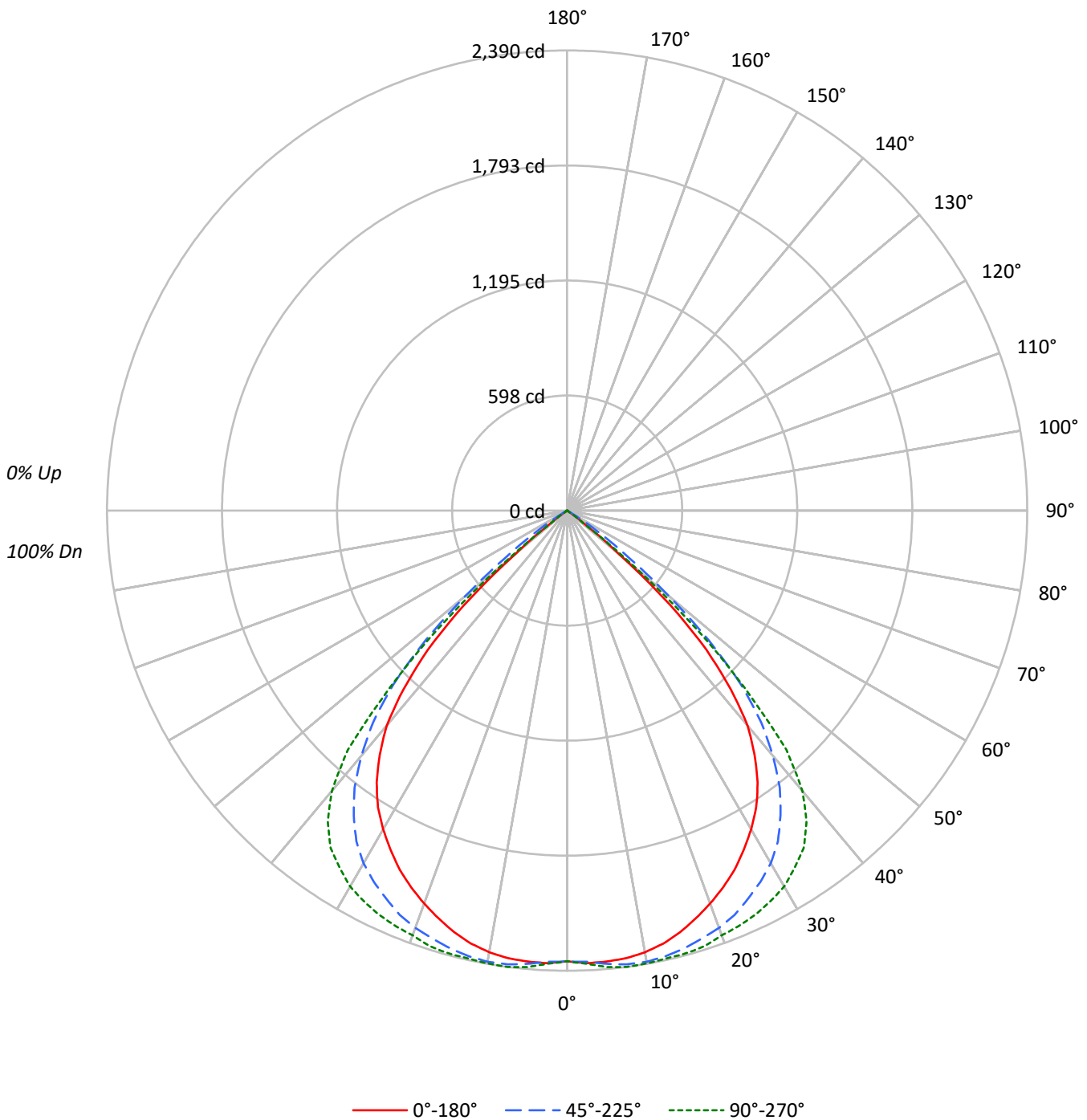
Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 4162.8 lumens
Efficiency: 47.8%
Efficacy: 43.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.41 / 1.31
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 95.5
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	57	57	57	57	56	56	56	56	53	53	53		51	51	51		49	49	49	48
1	54	52	51	50	53	51	50	49	49	48	47		48	47	46		46	45	45	44
2	51	48	46	44	49	47	45	43	45	44	42		44	43	41		43	41	40	40
3	47	44	41	39	46	43	40	38	42	40	38		41	39	37		39	38	37	36
4	44	40	37	34	43	39	37	34	38	36	34		37	35	33		36	35	33	32
5	41	37	33	31	41	36	33	31	35	33	30		34	32	30		34	32	30	29
6	39	34	30	28	38	33	30	28	33	30	28		32	29	27		31	29	27	26
7	36	31	28	25	36	31	27	25	30	27	25		29	27	25		29	26	25	24
8	34	29	25	23	33	28	25	23	28	25	23		27	25	23		27	24	23	22
9	32	27	23	21	31	26	23	21	26	23	21		25	23	21		25	22	21	20
10	30	25	21	19	30	24	21	19	24	21	19		24	21	19		23	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3756	3756	3756
5°	3787	3806	3833
10°	3795	3876	3891
15°	3766	3909	3955
20°	3709	3938	4009
25°	3644	3937	4099
30°	3541	3919	4178
35°	3379	3784	4194
40°	3056	3481	3982
45°	2321	2898	2964
50°	886	1702	1193
55°	50	641	31
60°	16	64	13
65°	15	15	8
70°	14	14	9
75°	19	12	6
80°	18	18	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°	225.8	5.4	2.6	0°	2341	2341	2341	2341	2341	
10°-20°	661.4	15.9	7.6	5°	2351	2352	2363	2374	2380	224
20°-30°	1019.1	24.5	11.7	15°	2267	2319	2353	2374	2381	638
30°-40°	1204.0	28.9	13.8	25°	2058	2135	2224	2307	2315	946
40°-50°	901.8	21.7	10.4	35°	1725	1822	1932	2088	2141	1068
50°-60°	143.3	3.4	1.6	45°	1023	1104	1277	1334	1306	747
60°-70°	4.1	0.1	0.0	55°	18	68	229	51	11	71
70°-80°	2.2	0.1	0.0	65°	4	4	4	3	2	4
80°-90°	1.1	0.0	0.0	75°	3	2	2	2	1	3
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	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1906.4	45.8	21.9							
0°-40°	3110.4	74.7	35.8							
0°-60°	4155.4	99.8	47.8							
0°-90°	4162.8	100.0	47.8							
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°	4162.8	100.0	47.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341	2341	2341	2341	2341
2.5°	2353	2343	2346	2351	2356
5°	2351	2352	2363	2374	2380
7.5°	2345	2356	2377	2385	2390
10°	2329	2354	2379	2385	2388
12.5°	2304	2342	2370	2377	2382
15°	2267	2319	2353	2374	2381
17.5°	2221	2283	2330	2371	2372
20°	2172	2242	2306	2347	2348
22.5°	2117	2189	2273	2326	2334
25°	2058	2135	2224	2307	2315
27.5°	1986	2072	2174	2271	2287
30°	1911	2001	2115	2234	2255
32.5°	1828	1920	2037	2174	2199
35°	1725	1822	1932	2088	2141
37.5°	1599	1697	1813	1977	2042
40°	1459	1543	1662	1825	1901
42.5°	1258	1365	1493	1616	1686
45°	1023	1104	1277	1334	1306
47.5°	728	813	996	957	917
50°	355	512	682	613	478
52.5°	122	233	416	274	100
55°	18	68	229	51	11
57.5°	7	10	85	7	6
60°	5	5	20	5	4
62.5°	5	5	5	4	3
65°	4	4	4	3	2
67.5°	4	3	3	3	2
70°	3	3	3	2	2
72.5°	3	3	2	2	1
75°	3	2	2	2	1
77.5°	2	2	2	2	1
80°	2	2	2	1	1
82.5°	2	1	1	1	1
85°	1	1	1	1	1
87.5°	1	1	1	1	1
90°	0	0	0	0	0

(END OF REPORT)