

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: P31032

Luminaire Tested: **2GR5-254T5PB1S-UNV-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P31032
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR5-254T5PB1S-UNV-EBT1
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: (2) DOUBLE BIPIN T5 LINEAR FLUORESCENT LAMPS 3500K
GE F54W/T5/835/ECO
Ballast/Driver: -
GE254MVPS90-E

Summary

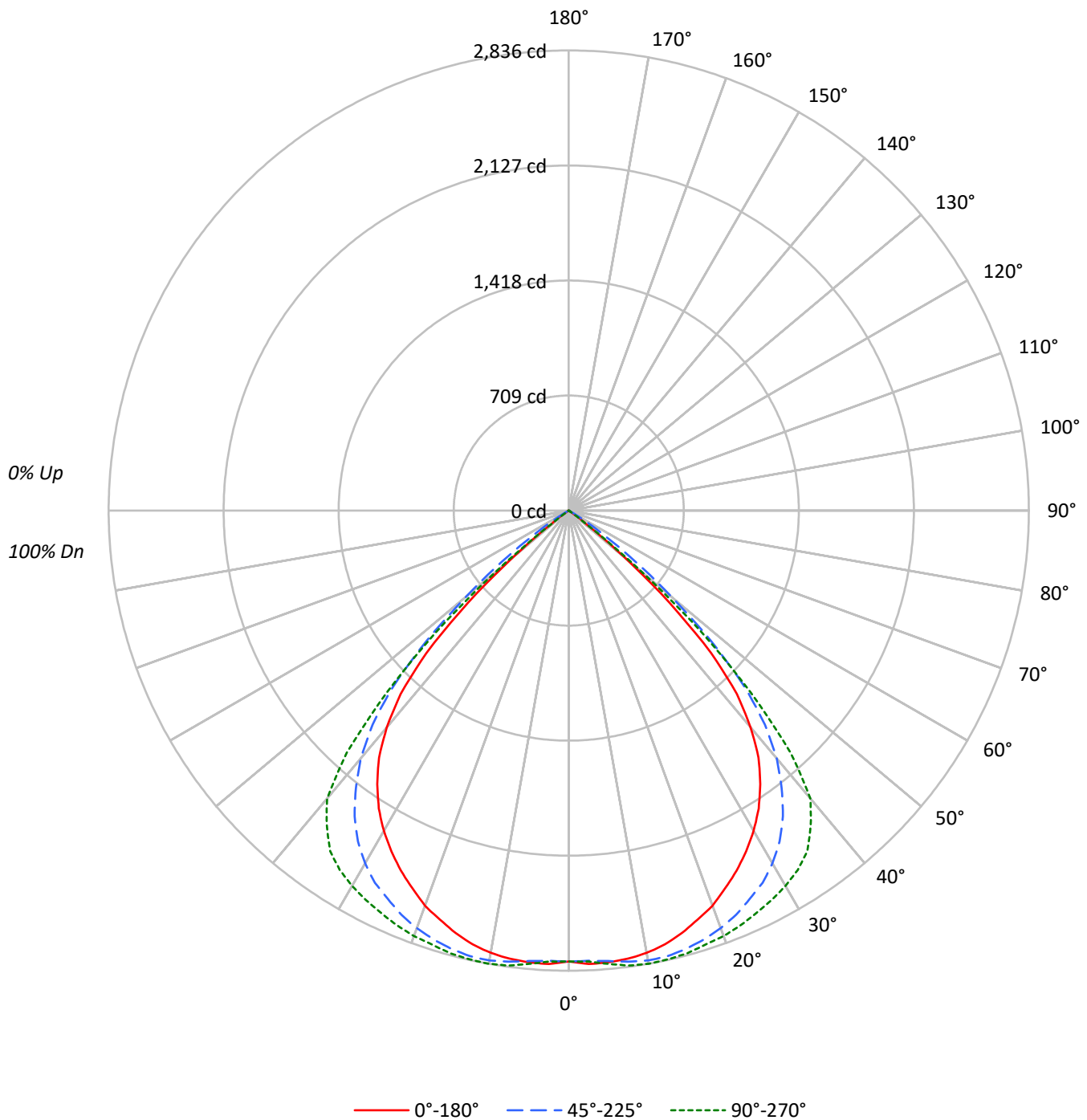
Lumens per Lamp: 4400 (2 lamps)
Luminaire Lumens: 4962.7 lumens
Efficiency: 56.4%
Efficacy: 40.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.41 / 1.31
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 122.2
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

TEST NUMBER: P31032

CATALOG NUMBER: 2GR5-254T5PB1S-UNV-EBT1

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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	67	67	67	67	66	66	66	66	63	63	63		60	60	60		56
1	63	62	60	59	62	60	59	58	58	57	56		56	55	54		52
2	60	56	54	51	58	55	53	51	54	52	50		52	50	49		47
3	56	52	48	46	55	51	48	45	49	47	44		48	46	44		42
4	52	47	43	41	51	46	43	40	45	42	40		44	41	39		38
5	49	43	39	36	48	43	39	36	42	38	36		41	38	36		34
6	46	40	36	33	45	39	35	33	38	35	32		37	34	32		31
7	43	37	32	30	42	36	32	30	35	32	29		35	32	29		28
8	40	34	30	27	39	33	30	27	33	29	27		32	29	27		26
9	38	31	27	25	37	31	27	25	30	27	24		30	27	24		23
10	35	29	25	23	35	29	25	23	28	25	22		28	25	22		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4459	4459	4459
5°	4502	4487	4516
10°	4510	4587	4621
15°	4477	4645	4691
20°	4424	4677	4764
25°	4334	4674	4844
30°	4222	4652	4949
35°	4031	4507	5020
40°	3653	4175	4853
45°	2818	3465	3594
50°	1116	2049	1470
55°	64	769	42
60°	19	83	16
65°	19	15	11
70°	19	14	9
75°	19	12	12
80°	18	18	9
85°	18	18	18



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	266.9	5.4	3.0
10°-20°	784.2	15.8	8.9
20°-30°	1209.7	24.4	13.7
30°-40°	1434.9	28.9	16.3
40°-50°	1084.6	21.9	12.3
50°-60°	173.7	3.5	2.0
60°-70°	5.0	0.1	0.1
70°-80°	2.5	0.1	0.0
80°-90°	1.2	0.0	0.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	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°	2260.8	45.6	25.7
0°-40°	3695.7	74.5	42.0
0°-60°	4954.0	99.8	56.3
0°-90°	4962.7	100.0	56.4
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°	4962.7	100.0	56.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2779	2779	2779	2779	2779	
5°	2795	2779	2786	2795	2804	266
15°	2695	2737	2796	2818	2824	760
25°	2448	2540	2640	2727	2736	1126
35°	2058	2161	2301	2488	2563	1276
45°	1242	1339	1527	1625	1584	898
55°	23	78	275	64	15	85
65°	5	5	4	4	3	5
75°	3	3	2	2	2	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2779	2779	2779	2779	2779
2.5°	2797	2780	2777	2773	2782
5°	2795	2779	2786	2795	2804
7.5°	2786	2778	2804	2815	2828
10°	2768	2774	2815	2826	2836
12.5°	2738	2763	2813	2823	2832
15°	2695	2737	2796	2818	2824
17.5°	2643	2702	2771	2806	2804
20°	2591	2656	2739	2780	2790
22.5°	2519	2603	2696	2760	2767
25°	2448	2540	2640	2727	2736
27.5°	2368	2465	2586	2687	2707
30°	2279	2383	2511	2643	2671
32.5°	2178	2288	2419	2582	2626
35°	2058	2161	2301	2488	2563
37.5°	1921	2025	2155	2359	2450
40°	1744	1843	1993	2169	2317
42.5°	1533	1628	1789	1956	2025
45°	1242	1339	1527	1625	1584
47.5°	842	965	1186	1167	1111
50°	447	606	821	733	589
52.5°	137	273	519	337	127
55°	23	78	275	64	15
57.5°	8	13	106	9	7
60°	6	6	26	6	5
62.5°	6	5	6	5	4
65°	5	5	4	4	3
67.5°	4	4	4	3	3
70°	4	4	3	3	2
72.5°	3	3	3	2	2
75°	3	3	2	2	2
77.5°	3	2	2	2	1
80°	2	2	2	2	1
82.5°	2	2	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)