

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P293273

Luminaire Tested: **24GR-LD5-72-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-72-F125-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7345.0 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

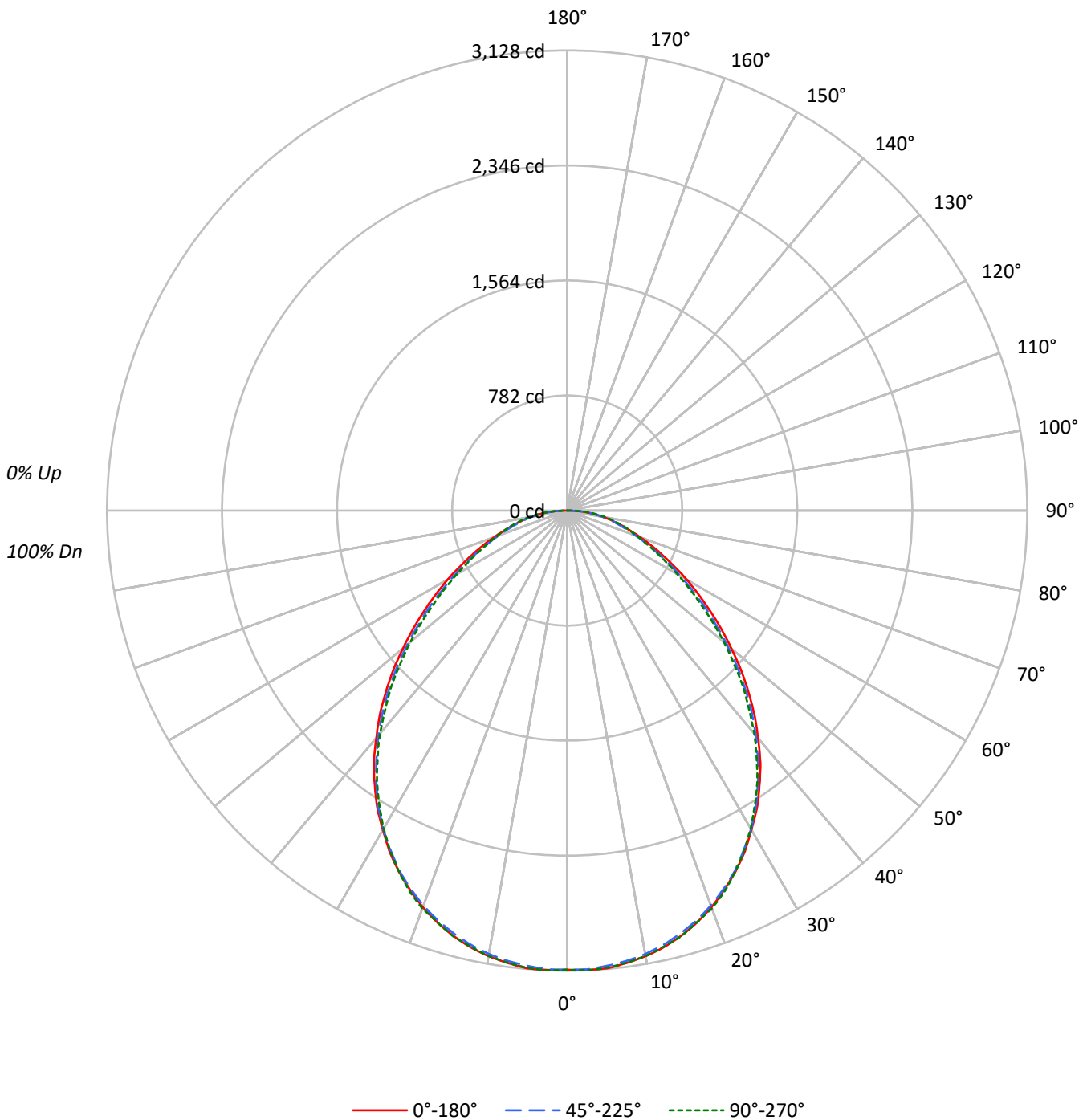
Input Watts (W): 53.568
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4200	4200	4200
5°	4219	4196	4213
10°	4202	4182	4201
15°	4169	4147	4172
20°	4108	4092	4121
25°	4019	4009	4017
30°	3892	3885	3876
35°	3745	3717	3702
40°	3545	3505	3476
45°	3316	3255	3216
50°	3047	2965	2915
55°	2779	2677	2599
60°	2524	2388	2326
65°	2273	2145	2109
70°	2082	1947	2001
75°	1946	1856	1994
80°	1930	1894	2082
85°	1967	1985	2269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	4.0
10°-20°	839.9	11.4
20°-30°	1240.8	16.9
30°-40°	1410.7	19.2
40°-50°	1317.4	17.9
50°-60°	1024.5	13.9
60°-70°	679.8	9.3
70°-80°	393.4	5.4
80°-90°	143.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2376.2	32.4
0°-40°	3786.9	51.6
0°-60°	6128.8	83.4
0°-90°	7345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3122	3122	3122	3122	3122	
5°	3124	3108	3107	3112	3119	296
15°	2993	2978	2977	2976	2995	843
25°	2707	2696	2700	2694	2706	1245
35°	2280	2269	2263	2247	2254	1424
45°	1743	1729	1711	1689	1690	1343
55°	1185	1168	1141	1111	1108	1062
65°	714	692	674	661	662	714
75°	374	365	357	373	384	400
85°	127	125	129	146	147	139
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3121.6	3121.6	3121.6	3121.6	3121.6
2.5°	3126.2	3117.0	3121.6	3118.2	3128.5
5°	3123.9	3107.8	3106.7	3112.4	3119.3
7.5°	3102.1	3084.9	3088.3	3088.3	3099.8
10°	3075.7	3058.5	3060.8	3061.9	3074.6
12.5°	3040.1	3022.9	3024.0	3022.9	3035.5
15°	2993.0	2978.1	2977.0	2975.8	2995.3
17.5°	2935.6	2915.0	2921.9	2923.0	2933.3
20°	2869.0	2853.0	2857.6	2856.4	2878.2
22.5°	2789.8	2778.3	2781.8	2779.5	2800.2
25°	2707.2	2695.7	2700.3	2694.5	2706.0
27.5°	2614.2	2606.1	2601.5	2598.1	2606.1
30°	2505.1	2500.5	2500.5	2485.6	2494.8
32.5°	2401.8	2386.9	2386.9	2381.1	2375.4
35°	2280.1	2268.6	2262.9	2246.8	2253.7
37.5°	2158.4	2132.0	2129.7	2117.1	2117.1
40°	2018.3	2003.4	1995.4	1981.6	1979.3
42.5°	1885.1	1870.2	1856.4	1833.5	1828.9
45°	1742.8	1729.0	1710.6	1688.8	1690.0
47.5°	1601.6	1582.1	1564.8	1538.4	1535.0
50°	1455.8	1442.0	1416.7	1393.8	1392.6
52.5°	1319.1	1297.3	1274.4	1246.8	1246.8
55°	1184.8	1167.6	1141.2	1111.3	1107.9
57.5°	1056.2	1040.2	1010.3	988.5	982.8
60°	938.0	915.0	887.5	869.1	864.5
62.5°	819.7	799.1	778.4	760.0	758.9
65°	714.1	692.3	673.9	661.3	662.4
67.5°	618.8	600.4	579.8	576.3	577.5
70°	529.3	509.7	494.8	502.9	508.6
72.5°	444.3	434.0	423.6	435.1	443.2
75°	374.3	365.1	357.1	373.1	383.5
77.5°	310.0	303.1	301.9	315.7	324.9
80°	249.1	241.1	244.5	260.6	268.7
82.5°	189.4	183.7	184.8	204.4	210.1
85°	127.4	125.1	128.6	145.8	147.0
87.5°	67.7	67.7	70.0	80.4	76.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)