

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: P293262

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293262
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-LD5-64-F125-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6250.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

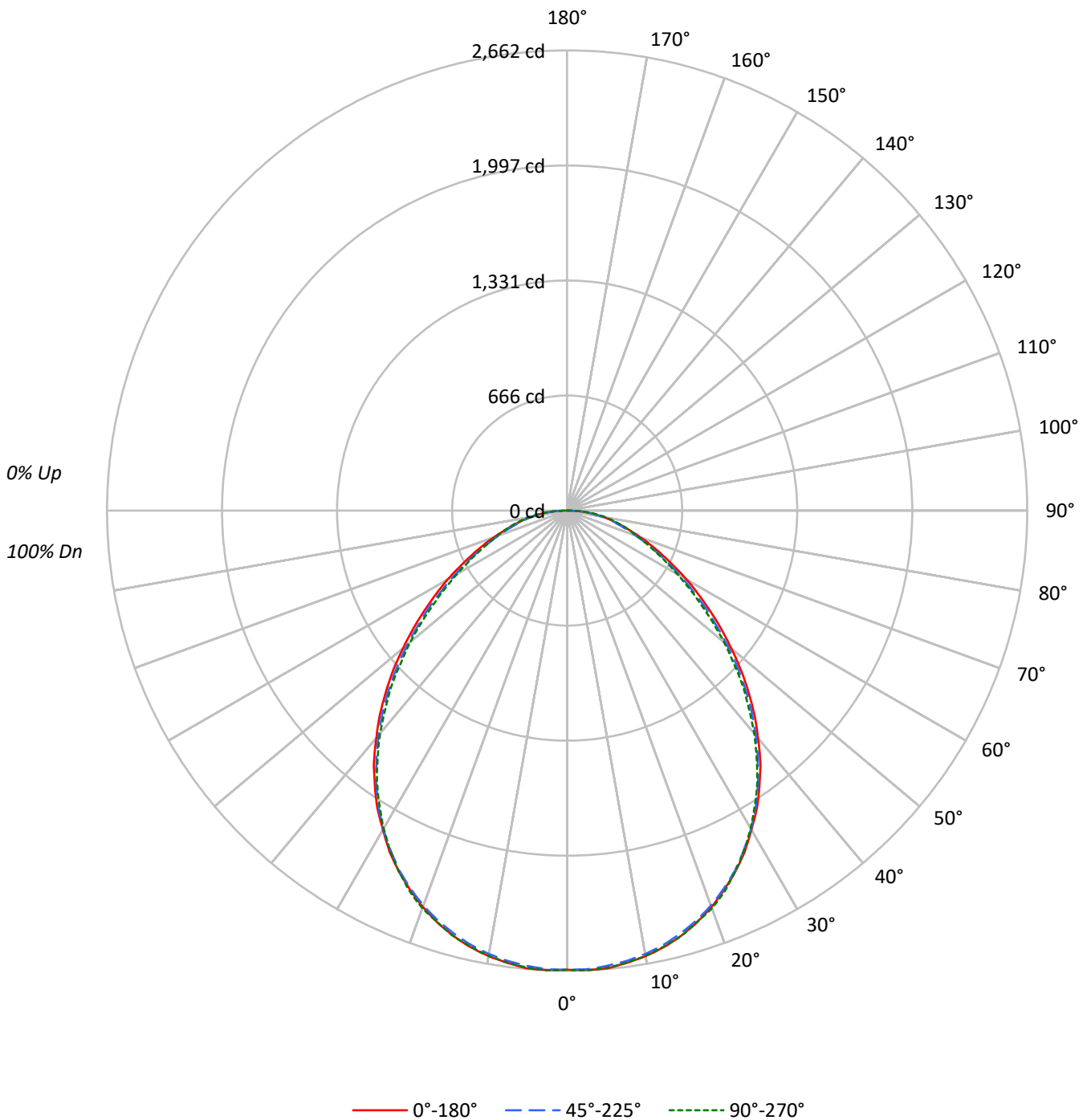
Input Watts (W): 46.128
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72	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°	3574	3574	3574
5°	3590	3570	3585
10°	3576	3558	3574
15°	3548	3529	3550
20°	3496	3482	3507
25°	3420	3411	3418
30°	3312	3306	3298
35°	3187	3163	3150
40°	3016	2982	2958
45°	2822	2770	2736
50°	2593	2523	2480
55°	2365	2278	2211
60°	2148	2032	1979
65°	1934	1826	1795
70°	1772	1657	1703
75°	1656	1579	1696
80°	1643	1612	1771
85°	1673	1689	1930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	4.0
10°-20°	714.7	11.4
20°-30°	1055.8	16.9
30°-40°	1200.4	19.2
40°-50°	1121.0	17.9
50°-60°	871.8	13.9
60°-70°	578.4	9.3
70°-80°	334.8	5.4
80°-90°	121.7	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°	2021.9	32.4
0°-40°	3222.3	51.6
0°-60°	5215.1	83.4
0°-90°	6250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6250.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2656	2656	2656	2656	2656	
5°	2658	2644	2644	2648	2654	252
15°	2547	2534	2533	2532	2549	718
25°	2304	2294	2298	2293	2303	1059
35°	1940	1930	1926	1912	1918	1211
45°	1483	1471	1456	1437	1438	1143
55°	1008	994	971	946	943	904
65°	608	589	574	563	564	607
75°	318	311	304	318	326	341
85°	108	106	109	124	125	118
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2656.2	2656.2	2656.2	2656.2	2656.2
2.5°	2660.2	2652.3	2656.2	2653.3	2662.1
5°	2658.2	2644.5	2643.5	2648.4	2654.3
7.5°	2639.6	2625.0	2627.9	2627.9	2637.7
10°	2617.2	2602.5	2604.5	2605.4	2616.2
12.5°	2586.9	2572.2	2573.2	2572.2	2583.0
15°	2546.8	2534.1	2533.2	2532.2	2548.8
17.5°	2498.0	2480.4	2486.3	2487.2	2496.0
20°	2441.3	2427.6	2431.6	2430.6	2449.1
22.5°	2373.9	2364.1	2367.1	2365.1	2382.7
25°	2303.6	2293.8	2297.7	2292.8	2302.6
27.5°	2224.5	2217.6	2213.7	2210.8	2217.6
30°	2131.6	2127.7	2127.7	2115.0	2122.9
32.5°	2043.7	2031.0	2031.0	2026.1	2021.3
35°	1940.2	1930.4	1925.5	1911.8	1917.7
37.5°	1836.6	1814.1	1812.2	1801.4	1801.4
40°	1717.4	1704.7	1697.9	1686.2	1684.2
42.5°	1604.1	1591.4	1579.7	1560.1	1556.2
45°	1483.0	1471.2	1455.6	1437.1	1438.0
47.5°	1362.8	1346.2	1331.5	1309.1	1306.1
50°	1238.7	1227.0	1205.5	1186.0	1185.0
52.5°	1122.5	1103.9	1084.4	1060.9	1060.9
55°	1008.2	993.5	971.1	945.7	942.7
57.5°	898.8	885.1	859.7	841.1	836.2
60°	798.1	778.6	755.2	739.5	735.6
62.5°	697.5	679.9	662.4	646.7	645.7
65°	607.6	589.1	573.5	562.7	563.7
67.5°	526.6	510.9	493.3	490.4	491.4
70°	450.4	433.8	421.1	427.9	432.8
72.5°	378.1	369.3	360.5	370.3	377.1
75°	318.5	310.7	303.8	317.5	326.3
77.5°	263.8	257.9	256.9	268.7	276.5
80°	212.0	205.2	208.1	221.8	228.6
82.5°	161.2	156.3	157.3	173.9	178.8
85°	108.4	106.5	109.4	124.1	125.0
87.5°	57.6	57.6	59.6	68.4	65.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)