

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: P475782

Luminaire Tested: **24GR-LD5-64-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475782
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A125-UNV-L835-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6363.5 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

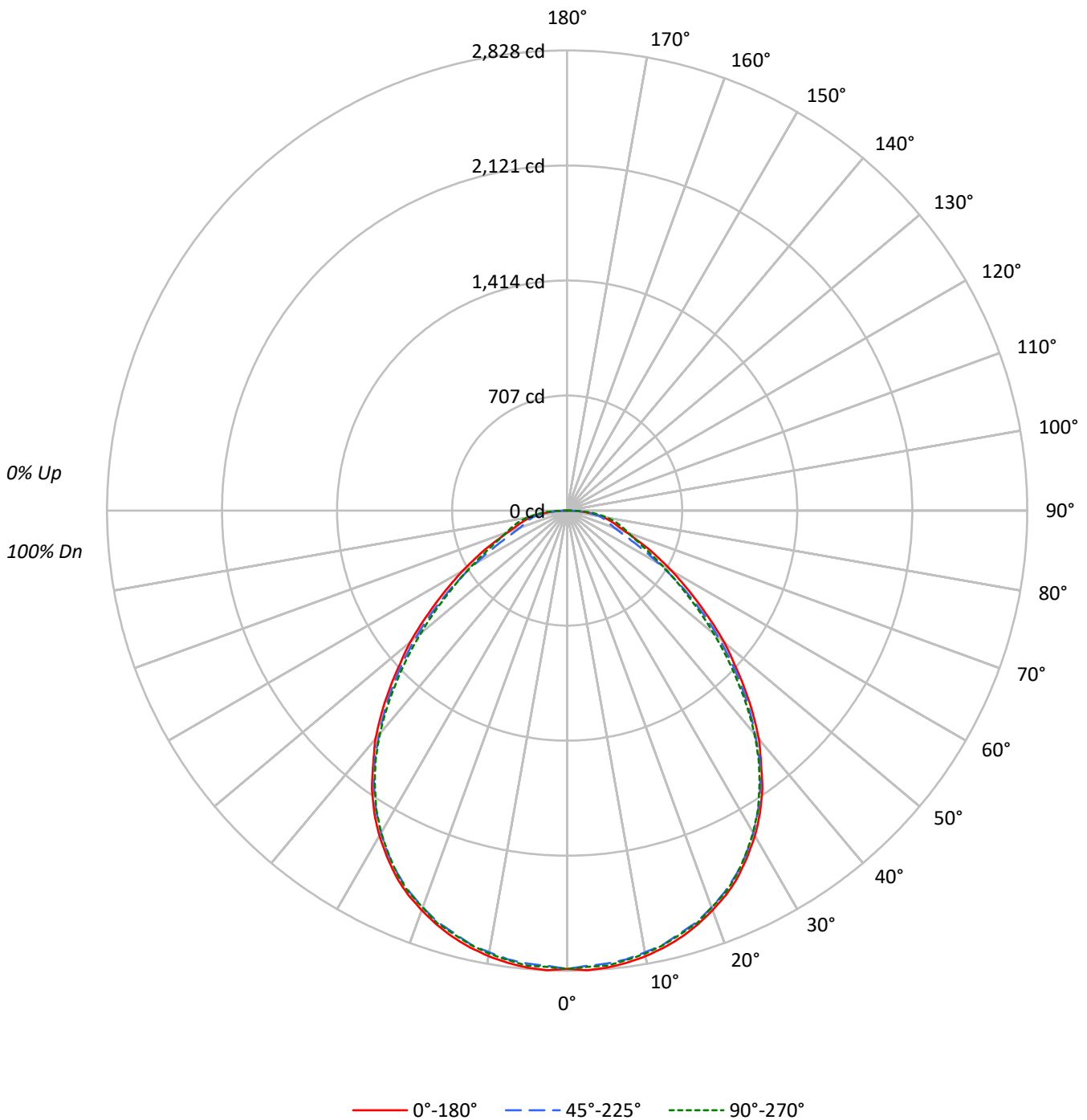
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	76	73
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	63
4	86	74	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	34	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3790	3790	3790
5°	3808	3774	3791
10°	3799	3766	3777
15°	3780	3744	3752
20°	3742	3715	3717
25°	3688	3658	3664
30°	3586	3553	3551
35°	3435	3401	3384
40°	3219	3156	3142
45°	2930	2871	2816
50°	2638	2545	2462
55°	2289	2165	2100
60°	1999	1745	1806
65°	1730	1387	1606
70°	1526	1216	1568
75°	1531	1322	1715
80°	1678	1571	1942
85°	1769	1711	2226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.2	4.2
10°-20°	760.6	12.0
20°-30°	1134.0	17.8
30°-40°	1289.1	20.3
40°-50°	1161.8	18.3
50°-60°	836.9	13.2
60°-70°	486.8	7.6
70°-80°	297.8	4.7
80°-90°	130.4	2.0
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°	2160.8	34.0
0°-40°	3450.0	54.2
0°-60°	5448.6	85.6
0°-90°	6363.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6363.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2816	2816	2816	2816	2816	
5°	2819	2800	2794	2800	2806	268
15°	2714	2699	2688	2692	2694	765
25°	2484	2469	2464	2460	2468	1141
35°	2091	2077	2070	2059	2060	1301
45°	1540	1522	1509	1486	1480	1188
55°	976	952	923	914	895	880
65°	543	488	436	470	504	543
75°	295	267	254	290	330	314
85°	115	113	111	150	144	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2816.5	2816.5	2816.5	2816.5	2816.5
2.5°	2827.9	2812.8	2800.2	2800.8	2807.1
5°	2819.1	2799.5	2794.5	2800.2	2806.5
7.5°	2803.3	2785.1	2781.9	2778.8	2786.3
10°	2780.7	2768.1	2756.7	2759.9	2764.3
12.5°	2750.4	2739.7	2731.6	2725.3	2734.7
15°	2713.9	2698.8	2687.5	2691.9	2693.8
17.5°	2668.0	2653.5	2650.3	2647.8	2657.3
20°	2613.2	2604.4	2594.9	2597.5	2596.2
22.5°	2555.3	2542.1	2534.5	2530.7	2540.8
25°	2484.1	2469.0	2464.0	2460.2	2467.8
27.5°	2397.3	2389.1	2382.2	2377.1	2377.8
30°	2307.9	2299.7	2287.1	2283.3	2285.8
32.5°	2205.3	2195.8	2184.5	2173.2	2181.3
35°	2091.3	2076.8	2070.5	2058.6	2060.5
37.5°	1956.6	1950.3	1944.6	1928.9	1933.9
40°	1832.6	1815.6	1796.7	1787.3	1789.1
42.5°	1689.0	1671.4	1656.3	1643.1	1636.8
45°	1539.8	1522.2	1509.0	1485.7	1480.0
47.5°	1391.3	1374.9	1360.4	1342.2	1325.8
50°	1260.3	1230.1	1215.6	1196.7	1176.0
52.5°	1113.0	1095.4	1067.1	1051.3	1032.4
55°	975.8	952.5	922.9	913.5	895.2
57.5°	852.4	827.2	783.8	780.0	779.4
60°	742.9	708.9	648.4	652.8	671.1
62.5°	636.5	588.0	533.2	552.7	579.8
65°	543.3	488.5	435.6	469.6	504.3
67.5°	453.9	404.8	360.1	405.4	441.9
70°	387.8	346.9	309.1	357.6	398.5
72.5°	332.4	300.9	276.4	320.4	364.5
75°	294.6	266.9	254.3	289.6	329.9
77.5°	259.4	234.8	231.0	262.5	292.1
80°	216.6	199.6	202.7	234.8	250.6
82.5°	164.9	159.9	160.5	200.8	204.0
85°	114.6	113.3	110.8	150.5	144.2
87.5°	57.9	59.2	58.5	85.6	76.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)