

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: P475811

Luminaire Tested: **24GR-LD5-56-A125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475811
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5831.3 lumens
Efficiency: N/A
Efficacy: 148.0 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

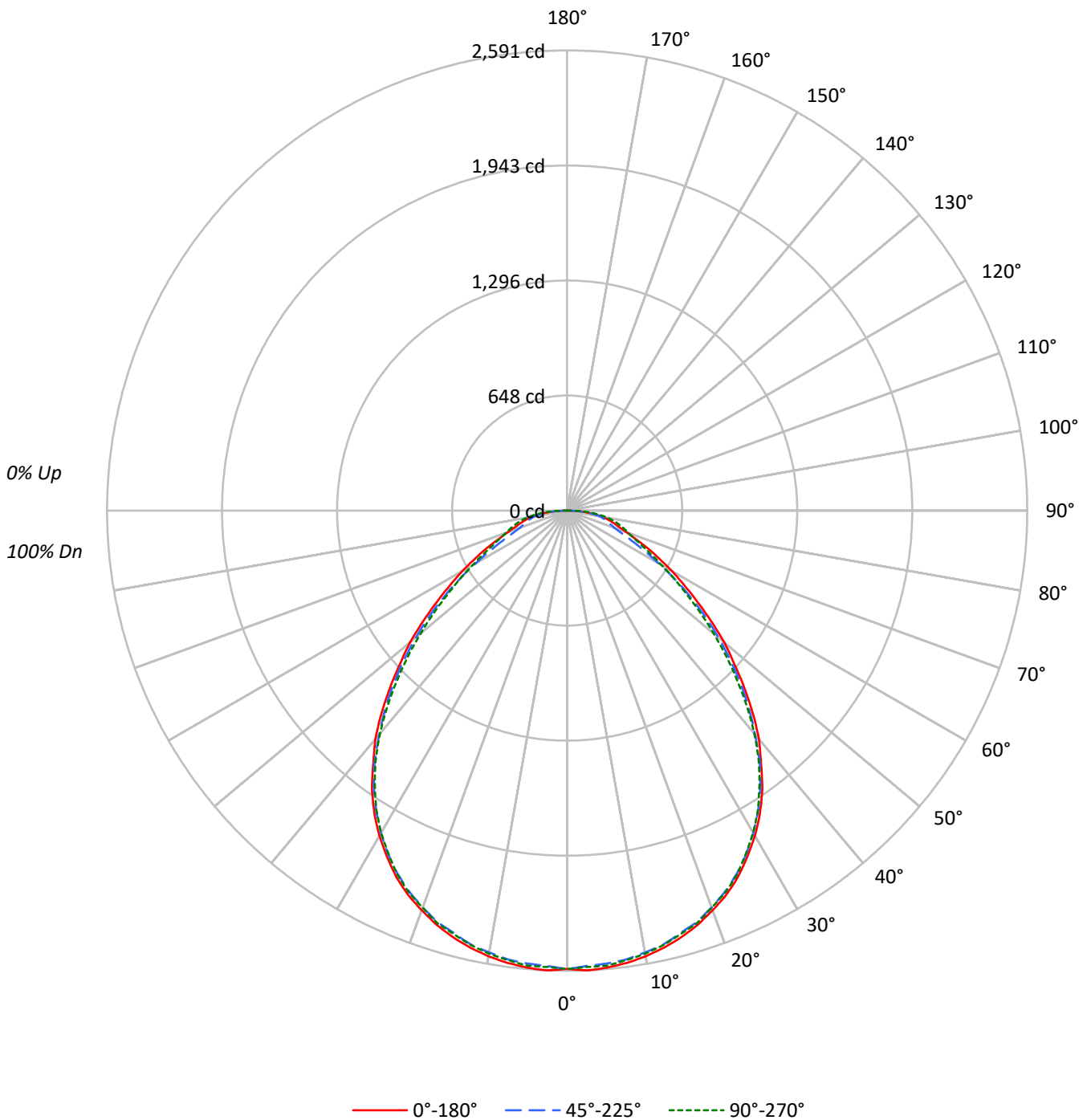
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3473	3473	3473
5°	3489	3459	3473
10°	3481	3451	3461
15°	3464	3430	3439
20°	3429	3405	3406
25°	3380	3352	3357
30°	3286	3256	3254
35°	3148	3117	3101
40°	2950	2892	2880
45°	2685	2631	2581
50°	2417	2332	2256
55°	2098	1984	1924
60°	1832	1599	1655
65°	1585	1271	1471
70°	1398	1114	1437
75°	1404	1212	1572
80°	1537	1440	1779
85°	1621	1567	2039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	4.2
10°-20°	697.0	12.0
20°-30°	1039.2	17.8
30°-40°	1181.3	20.3
40°-50°	1064.6	18.3
50°-60°	766.9	13.2
60°-70°	446.0	7.6
70°-80°	272.9	4.7
80°-90°	119.4	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°	1980.1	34.0
0°-40°	3161.4	54.2
0°-60°	4992.9	85.6
0°-90°	5831.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5831.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2581	2581	2581	2581	2581	
5°	2583	2565	2561	2566	2572	245
15°	2487	2473	2463	2467	2468	701
25°	2276	2262	2258	2254	2261	1046
35°	1916	1903	1897	1886	1888	1192
45°	1411	1395	1383	1361	1356	1088
55°	894	873	846	837	820	806
65°	498	448	399	430	462	498
75°	270	245	233	265	302	287
85°	105	104	102	138	132	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.0	2581.0	2581.0	2581.0	2581.0
2.5°	2591.3	2577.5	2566.0	2566.5	2572.3
5°	2583.3	2565.4	2560.8	2566.0	2571.7
7.5°	2568.9	2552.1	2549.2	2546.4	2553.3
10°	2548.1	2536.5	2526.2	2529.0	2533.1
12.5°	2520.4	2510.6	2503.1	2497.3	2506.0
15°	2486.9	2473.1	2462.7	2466.7	2468.5
17.5°	2444.8	2431.6	2428.7	2426.4	2435.0
20°	2394.6	2386.6	2377.9	2380.2	2379.1
22.5°	2341.6	2329.4	2322.5	2319.1	2328.3
25°	2276.4	2262.5	2257.9	2254.5	2261.4
27.5°	2196.8	2189.3	2182.9	2178.3	2178.9
30°	2114.8	2107.3	2095.8	2092.3	2094.7
32.5°	2020.8	2012.2	2001.8	1991.4	1998.9
35°	1916.4	1903.1	1897.4	1886.4	1888.1
37.5°	1792.9	1787.2	1782.0	1767.6	1772.2
40°	1679.3	1663.7	1646.4	1637.8	1639.5
42.5°	1547.8	1531.6	1517.8	1505.7	1499.9
45°	1411.1	1394.9	1382.8	1361.4	1356.2
47.5°	1274.9	1259.9	1246.6	1229.9	1214.9
50°	1154.9	1127.2	1114.0	1096.7	1077.6
52.5°	1019.9	1003.8	977.8	963.4	946.1
55°	894.2	872.8	845.7	837.1	820.3
57.5°	781.1	758.0	718.2	714.8	714.2
60°	680.7	649.6	594.2	598.2	615.0
62.5°	583.2	538.8	488.6	506.5	531.3
65°	497.8	447.7	399.2	430.4	462.1
67.5°	415.9	370.9	330.0	371.5	405.0
70°	355.4	317.9	283.2	327.7	365.2
72.5°	304.6	275.7	253.3	293.6	334.0
75°	270.0	244.6	233.1	265.4	302.3
77.5°	237.7	215.2	211.7	240.6	267.7
80°	198.4	182.9	185.8	215.2	229.6
82.5°	151.1	146.5	147.1	184.0	186.9
85°	105.0	103.8	101.5	137.9	132.1
87.5°	53.1	54.2	53.6	78.5	70.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)