

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: P475752

Luminaire Tested: **24GR-LD5-64-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475752
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-A-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6270.9 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

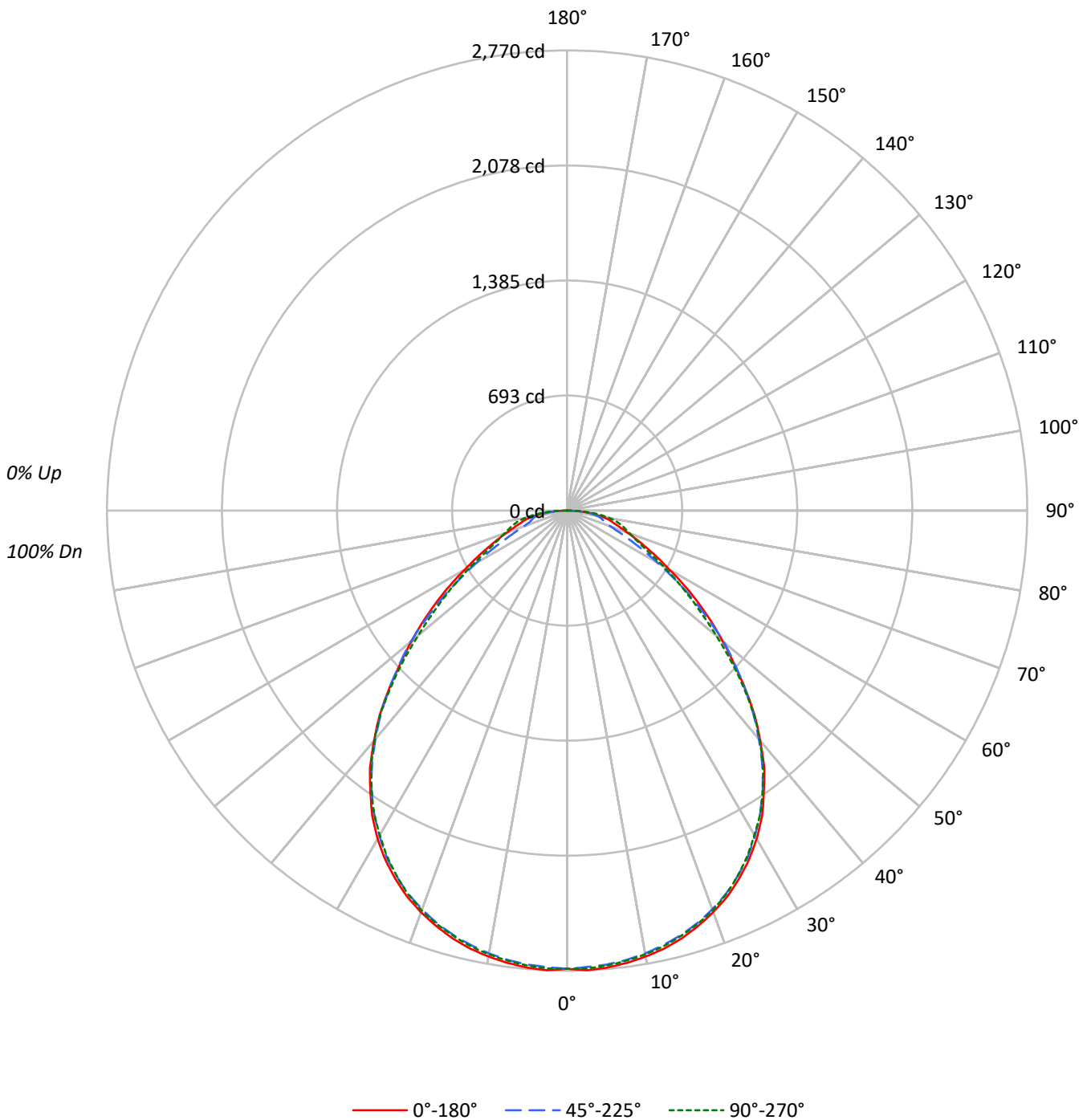
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	58	56
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	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	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	50	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	45	39	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°	3711	3711	3711
5°	3729	3704	3713
10°	3724	3698	3706
15°	3713	3684	3692
20°	3684	3657	3667
25°	3633	3606	3603
30°	3545	3512	3503
35°	3393	3371	3371
40°	3174	3156	3169
45°	2882	2877	2854
50°	2556	2576	2449
55°	2247	2148	2097
60°	1912	1696	1784
65°	1671	1319	1575
70°	1511	1086	1572
75°	1512	1159	1756
80°	1665	1426	2009
85°	1715	1601	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	4.2
10°-20°	747.7	11.9
20°-30°	1118.5	17.8
30°-40°	1280.0	20.4
40°-50°	1159.7	18.5
50°-60°	821.0	13.1
60°-70°	474.3	7.6
70°-80°	287.5	4.6
80°-90°	121.0	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°	2127.4	33.9
0°-40°	3407.4	54.3
0°-60°	5388.1	85.9
0°-90°	6270.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6270.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2761	2751	2743	2742	2749	262
15°	2666	2655	2644	2644	2651	752
25°	2447	2437	2429	2427	2427	1125
35°	2065	2056	2052	2049	2052	1289
45°	1515	1512	1512	1501	1500	1167
55°	958	926	916	888	894	858
65°	525	470	414	474	495	528
75°	291	261	223	286	338	312
85°	111	100	104	133	142	119
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2758.1	2758.1	2758.1	2758.1	2758.1
2.5°	2769.9	2759.4	2750.1	2751.4	2758.1
5°	2761.2	2751.4	2742.7	2742.1	2748.9
7.5°	2746.4	2737.8	2727.9	2727.9	2733.4
10°	2725.4	2716.8	2706.9	2706.3	2712.5
12.5°	2700.7	2689.6	2679.1	2679.1	2685.9
15°	2665.5	2655.0	2644.5	2644.5	2650.7
17.5°	2622.3	2613.0	2604.4	2605.0	2610.0
20°	2572.9	2563.7	2554.4	2555.6	2561.2
22.5°	2516.1	2505.0	2497.6	2497.0	2500.7
25°	2447.0	2437.1	2429.0	2427.2	2427.2
27.5°	2369.8	2359.3	2353.7	2345.1	2347.5
30°	2281.5	2270.4	2260.5	2255.5	2254.9
32.5°	2182.1	2171.0	2162.3	2161.7	2164.2
35°	2065.4	2056.1	2052.4	2049.3	2052.4
37.5°	1949.9	1932.6	1929.5	1928.9	1936.9
40°	1807.3	1801.1	1796.8	1793.7	1804.2
42.5°	1670.2	1657.9	1659.1	1647.4	1665.9
45°	1514.6	1511.5	1512.1	1501.0	1499.8
47.5°	1360.2	1359.6	1368.9	1338.0	1336.2
50°	1221.3	1215.1	1230.6	1183.0	1170.1
52.5°	1088.6	1071.3	1066.3	1023.1	1023.1
55°	957.7	925.6	915.7	888.5	894.1
57.5°	833.6	787.9	767.5	766.9	776.1
60°	710.7	658.8	630.4	652.6	663.1
62.5°	613.1	556.3	513.1	555.1	565.0
65°	524.8	470.5	414.3	474.2	494.6
67.5°	448.9	403.8	333.4	411.8	439.0
70°	384.1	343.9	276.0	363.1	399.5
72.5°	332.8	299.5	240.2	324.2	368.0
75°	290.8	260.6	222.9	286.5	337.7
77.5°	257.5	221.7	208.7	250.7	303.2
80°	214.9	182.1	184.0	215.5	259.3
82.5°	165.5	140.8	148.2	178.4	203.8
85°	111.1	100.0	103.7	132.8	142.0
87.5°	55.0	53.1	56.8	77.8	77.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)