

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: P475750

Luminaire Tested: **24GR-LD5-48-A-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475750
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-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: 4804.6 lumens
Efficiency: N/A
Efficacy: 145.6 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

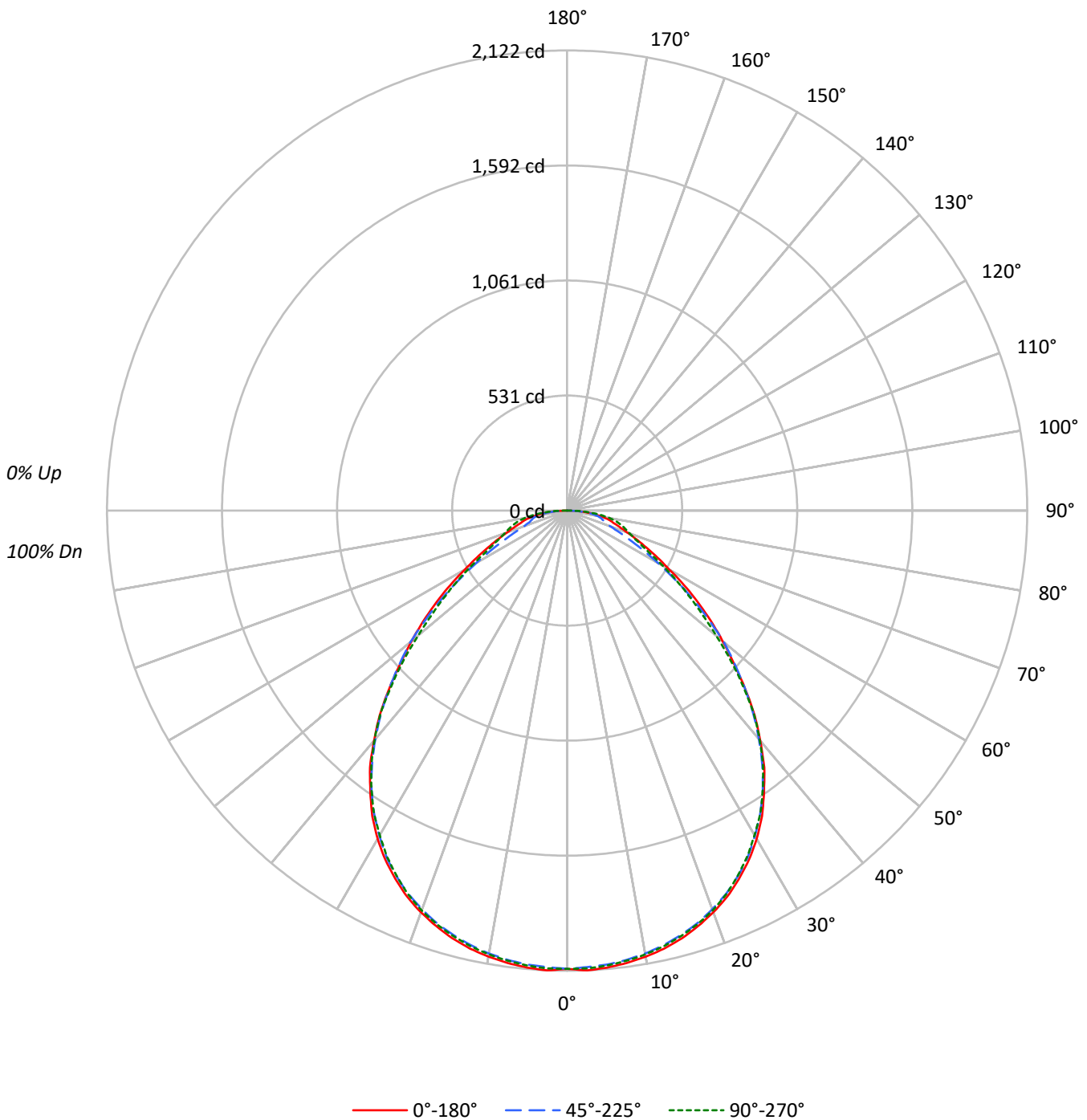
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2843	2843	2843
5°	2857	2838	2845
10°	2853	2834	2839
15°	2845	2822	2829
20°	2823	2802	2810
25°	2783	2763	2761
30°	2716	2691	2684
35°	2599	2583	2583
40°	2432	2418	2428
45°	2208	2205	2187
50°	1959	1973	1877
55°	1721	1646	1607
60°	1465	1300	1367
65°	1280	1011	1206
70°	1158	832	1204
75°	1158	888	1345
80°	1275	1093	1540
85°	1315	1227	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	4.2
10°-20°	572.9	11.9
20°-30°	857.0	17.8
30°-40°	980.7	20.4
40°-50°	888.5	18.5
50°-60°	629.0	13.1
60°-70°	363.4	7.6
70°-80°	220.3	4.6
80°-90°	92.7	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°	1629.9	33.9
0°-40°	2610.6	54.3
0°-60°	4128.2	85.9
0°-90°	4804.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4804.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2113	2113	2113	2113	2113	
5°	2116	2108	2101	2101	2106	201
15°	2042	2034	2026	2026	2031	576
25°	1875	1867	1861	1860	1860	862
35°	1582	1575	1572	1570	1572	987
45°	1160	1158	1159	1150	1149	894
55°	734	709	702	681	685	657
65°	402	360	317	363	379	404
75°	223	200	171	220	259	239
85°	85	77	80	102	109	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2113.2	2113.2	2113.2	2113.2	2113.2
2.5°	2122.2	2114.2	2107.1	2108.0	2113.2
5°	2115.6	2108.0	2101.4	2100.9	2106.1
7.5°	2104.2	2097.6	2090.0	2090.0	2094.3
10°	2088.1	2081.5	2074.0	2073.5	2078.2
12.5°	2069.2	2060.7	2052.7	2052.7	2057.9
15°	2042.3	2034.2	2026.2	2026.2	2030.9
17.5°	2009.1	2002.0	1995.4	1995.9	1999.7
20°	1971.3	1964.2	1957.1	1958.0	1962.3
22.5°	1927.8	1919.3	1913.6	1913.1	1915.9
25°	1874.8	1867.2	1861.1	1859.6	1859.6
27.5°	1815.7	1807.6	1803.4	1796.7	1798.6
30°	1748.0	1739.5	1731.9	1728.1	1727.7
32.5°	1671.8	1663.3	1656.7	1656.2	1658.1
35°	1582.4	1575.3	1572.5	1570.1	1572.5
37.5°	1494.0	1480.7	1478.4	1477.9	1484.0
40°	1384.7	1380.0	1376.6	1374.3	1382.3
42.5°	1279.7	1270.2	1271.1	1262.2	1276.4
45°	1160.4	1158.1	1158.6	1150.0	1149.1
47.5°	1042.2	1041.7	1048.8	1025.1	1023.7
50°	935.7	931.0	942.8	906.4	896.5
52.5°	834.0	820.8	817.0	783.9	783.9
55°	733.7	709.1	701.6	680.8	685.0
57.5°	638.6	603.6	588.0	587.6	594.7
60°	544.5	504.8	483.0	500.0	508.1
62.5°	469.8	426.2	393.1	425.3	432.9
65°	402.1	360.5	317.4	363.3	378.9
67.5°	343.9	309.4	255.5	315.5	336.4
70°	294.3	263.5	211.5	278.2	306.1
72.5°	255.0	229.4	184.0	248.4	282.0
75°	222.8	199.6	170.8	219.5	258.8
77.5°	197.3	169.8	159.9	192.1	232.3
80°	164.6	139.6	141.0	165.1	198.7
82.5°	126.8	107.9	113.5	136.7	156.1
85°	85.2	76.6	79.5	101.7	108.8
87.5°	42.1	40.7	43.5	59.6	59.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)