

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: P475707

Luminaire Tested: **24GR-LD5-64-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475707
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5932.7 lumens
Efficiency: N/A
Efficacy: 136.7 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

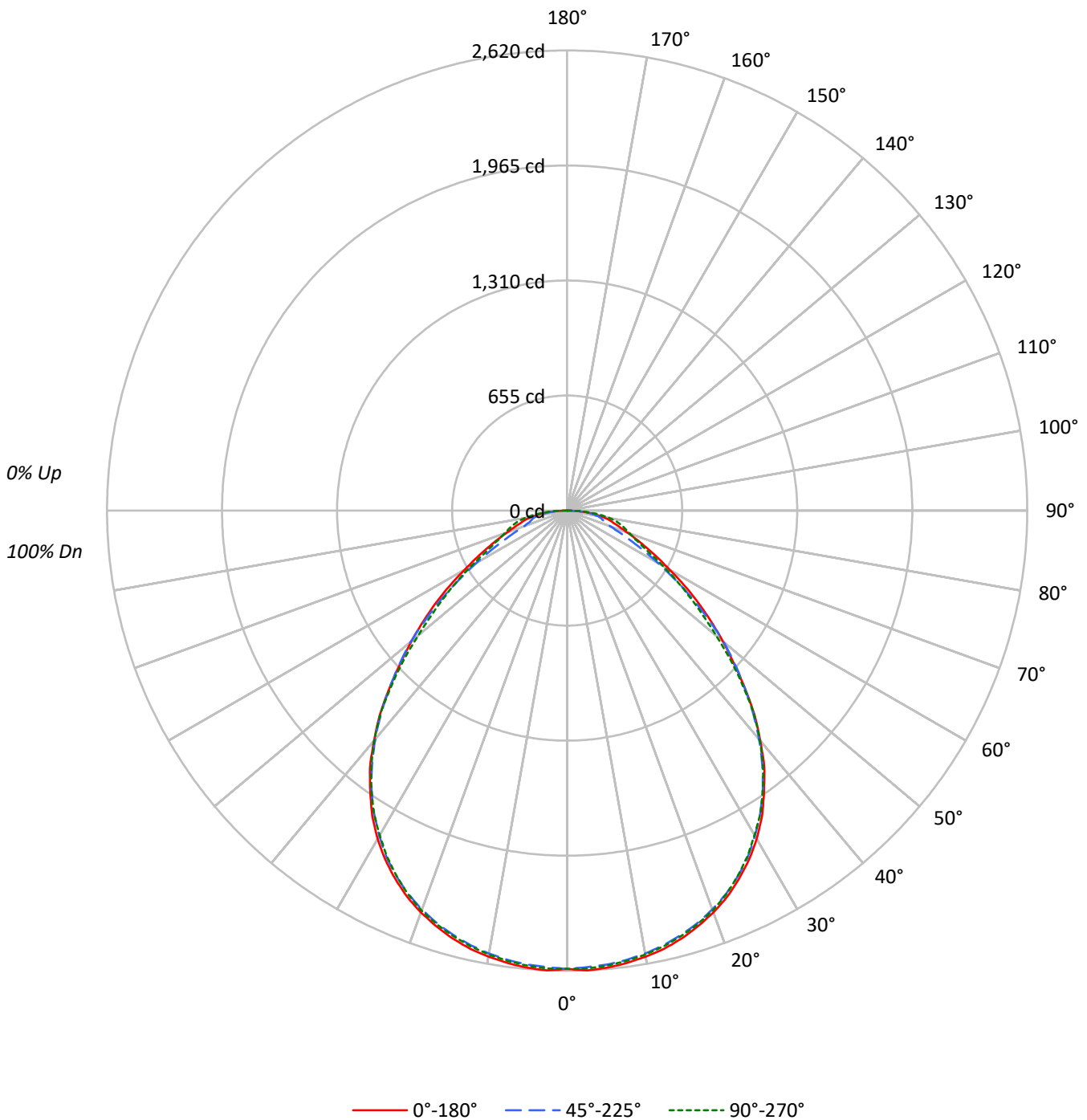
Input Watts (W): 43.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3511	3511	3511
5°	3528	3505	3513
10°	3523	3499	3506
15°	3513	3485	3493
20°	3485	3460	3469
25°	3437	3412	3409
30°	3354	3323	3314
35°	3210	3189	3189
40°	3003	2986	2998
45°	2727	2722	2700
50°	2419	2437	2317
55°	2125	2032	1984
60°	1809	1605	1688
65°	1581	1248	1490
70°	1429	1027	1487
75°	1430	1096	1661
80°	1575	1349	1901
85°	1623	1514	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	4.2
10°-20°	707.4	11.9
20°-30°	1058.2	17.8
30°-40°	1210.9	20.4
40°-50°	1097.2	18.5
50°-60°	776.7	13.1
60°-70°	448.7	7.6
70°-80°	272.0	4.6
80°-90°	114.5	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°	2012.7	33.9
0°-40°	3223.6	54.3
0°-60°	5097.5	85.9
0°-90°	5932.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5932.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2612	2603	2595	2594	2601	248
15°	2522	2512	2502	2502	2508	711
25°	2315	2306	2298	2296	2296	1065
35°	1954	1945	1942	1939	1942	1219
45°	1433	1430	1431	1420	1419	1104
55°	906	876	866	841	846	812
65°	496	445	392	449	468	499
75°	275	246	211	271	320	295
85°	105	95	98	126	134	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2609.4	2609.4	2609.4	2609.4	2609.4
2.5°	2620.5	2610.6	2601.8	2603.0	2609.4
5°	2612.3	2603.0	2594.8	2594.2	2600.7
7.5°	2598.3	2590.1	2580.8	2580.8	2586.1
10°	2578.5	2570.3	2560.9	2560.4	2566.2
12.5°	2555.1	2544.6	2534.7	2534.7	2541.1
15°	2521.8	2511.9	2501.9	2501.9	2507.8
17.5°	2480.9	2472.1	2464.0	2464.6	2469.2
20°	2434.2	2425.4	2416.7	2417.8	2423.1
22.5°	2380.4	2369.9	2362.9	2362.3	2365.8
25°	2315.0	2305.7	2298.1	2296.3	2296.3
27.5°	2242.0	2232.1	2226.8	2218.6	2221.0
30°	2158.5	2147.9	2138.6	2133.9	2133.3
32.5°	2064.4	2053.9	2045.7	2045.1	2047.5
35°	1954.0	1945.2	1941.7	1938.8	1941.7
37.5°	1844.8	1828.4	1825.5	1824.9	1832.5
40°	1709.8	1704.0	1699.9	1697.0	1706.9
42.5°	1580.1	1568.5	1569.6	1558.5	1576.1
45°	1432.9	1430.0	1430.6	1420.1	1418.9
47.5°	1286.9	1286.3	1295.1	1265.9	1264.1
50°	1155.5	1149.6	1164.2	1119.2	1107.0
52.5°	1029.9	1013.5	1008.8	967.9	967.9
55°	906.0	875.6	866.3	840.6	845.9
57.5°	788.6	745.4	726.1	725.5	734.3
60°	672.4	623.3	596.4	617.5	627.4
62.5°	580.1	526.3	485.4	525.2	534.5
65°	496.5	445.1	392.0	448.6	467.9
67.5°	424.7	382.0	315.4	389.6	415.3
70°	363.3	325.4	261.1	343.5	377.9
72.5°	314.9	283.3	227.2	306.7	348.2
75°	275.1	246.5	210.9	271.0	319.5
77.5°	243.6	209.7	197.4	237.2	286.8
80°	203.3	172.3	174.1	203.9	245.3
82.5°	156.6	133.2	140.2	168.8	192.8
85°	105.1	94.6	98.1	125.6	134.4
87.5°	52.0	50.2	53.7	73.6	73.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)