

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: P475743

Luminaire Tested: **24GR-LD5-130-A-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475743
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-130-A-UNV-L840-CD1-U
Description: GR 2'X4' LED TROFFER w/ A LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12840.9 lumens
Efficiency: N/A
Efficacy: 144.8 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

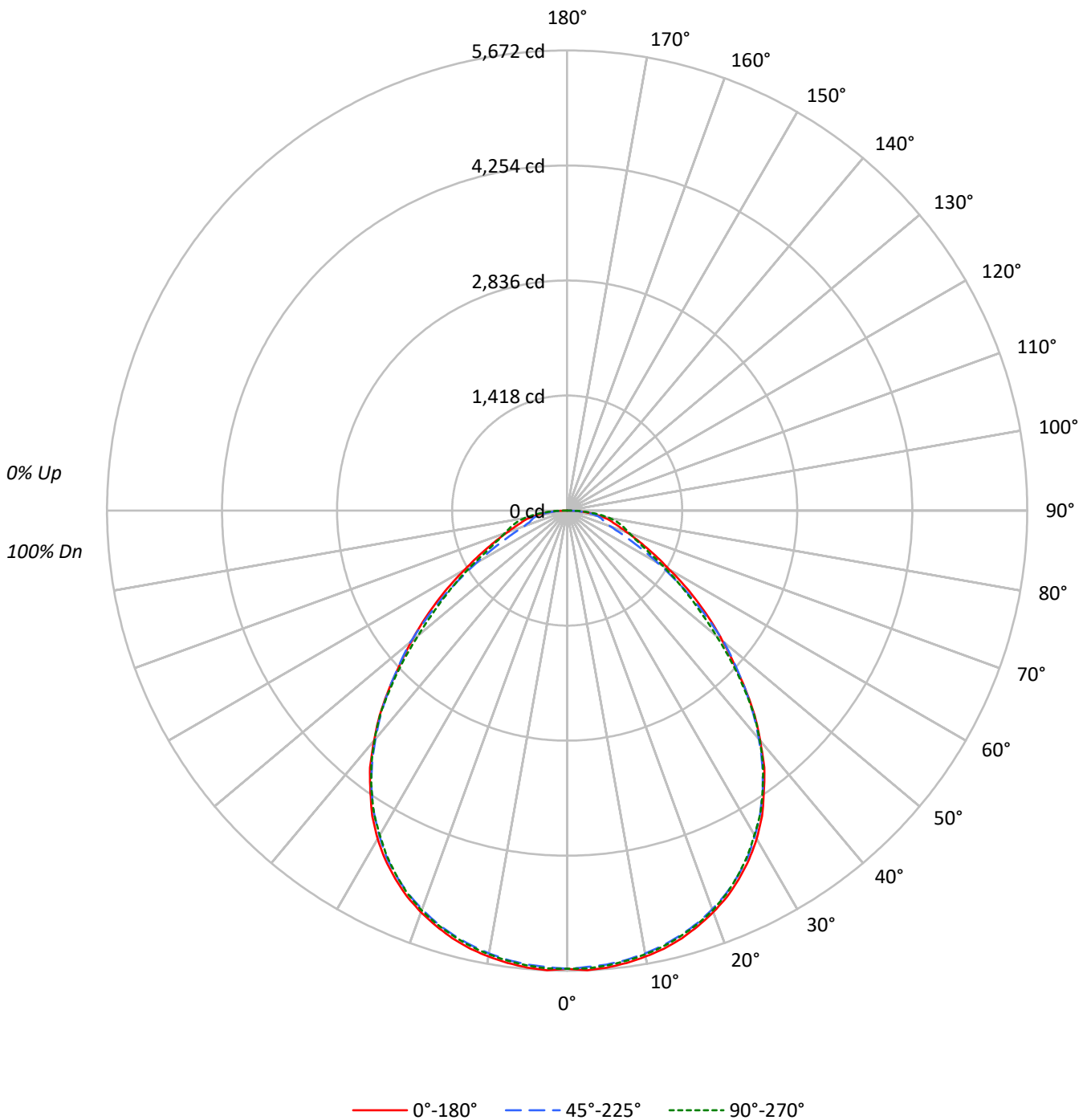
Input Watts (W): 88.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	7599	7599	7599
5°	7637	7585	7603
10°	7625	7573	7589
15°	7603	7543	7561
20°	7544	7489	7509
25°	7439	7384	7379
30°	7258	7191	7174
35°	6947	6903	6903
40°	6500	6462	6489
45°	5901	5892	5844
50°	5235	5274	5015
55°	4600	4398	4295
60°	3916	3474	3654
65°	3422	2701	3224
70°	3094	2223	3218
75°	3096	2373	3595
80°	3409	2920	4114
85°	3514	3279	4489



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.8	4.2
10°-20°	1531.1	11.9
20°-30°	2290.4	17.8
30°-40°	2621.0	20.4
40°-50°	2374.7	18.5
50°-60°	1681.2	13.1
60°-70°	971.2	7.6
70°-80°	588.8	4.6
80°-90°	247.8	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°	4356.2	33.9
0°-40°	6977.2	54.3
0°-60°	11033.1	85.9
0°-90°	12840.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12840.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5648	5648	5648	5648	5648	
5°	5654	5634	5616	5615	5629	537
15°	5458	5437	5415	5415	5428	1539
25°	5011	4990	4974	4970	4970	2305
35°	4229	4210	4203	4196	4203	2639
45°	3101	3095	3096	3074	3071	2389
55°	1961	1895	1875	1819	1831	1757
65°	1075	963	848	971	1013	1080
75°	596	534	456	587	692	638
85°	228	205	212	272	291	245
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5647.8	5647.8	5647.8	5647.8	5647.8
2.5°	5671.9	5650.4	5631.4	5633.9	5647.8
5°	5654.2	5633.9	5616.2	5615.0	5628.9
7.5°	5623.8	5606.1	5585.9	5585.9	5597.3
10°	5580.8	5563.1	5542.9	5541.6	5554.3
12.5°	5530.2	5507.5	5486.0	5486.0	5499.9
15°	5458.2	5436.7	5415.2	5415.2	5427.8
17.5°	5369.7	5350.7	5333.0	5334.3	5344.4
20°	5268.5	5249.6	5230.6	5233.1	5244.5
22.5°	5152.2	5129.5	5114.3	5113.0	5120.6
25°	5010.6	4990.4	4973.9	4970.1	4970.1
27.5°	4852.6	4831.1	4819.7	4802.0	4807.0
30°	4671.8	4649.0	4628.8	4618.7	4617.4
32.5°	4468.2	4445.4	4427.7	4426.5	4431.5
35°	4229.2	4210.3	4202.7	4196.4	4202.7
37.5°	3992.8	3957.4	3951.1	3949.8	3966.3
40°	3700.7	3688.1	3679.2	3672.9	3694.4
42.5°	3420.1	3394.8	3397.3	3373.3	3411.2
45°	3101.4	3095.1	3096.4	3073.6	3071.1
47.5°	2785.4	2784.1	2803.1	2739.8	2736.0
50°	2500.9	2488.2	2519.8	2422.5	2395.9
52.5°	2229.0	2193.6	2183.5	2095.0	2095.0
55°	1961.0	1895.3	1875.0	1819.4	1830.8
57.5°	1706.9	1613.3	1571.6	1570.3	1589.3
60°	1455.3	1349.1	1290.9	1336.4	1357.9
62.5°	1255.5	1139.2	1050.7	1136.6	1156.9
65°	1074.7	963.4	848.4	971.0	1012.7
67.5°	919.2	826.9	682.7	843.3	898.9
70°	786.4	704.2	565.2	743.4	818.0
72.5°	681.5	613.2	491.8	663.8	753.5
75°	595.5	533.6	456.4	586.7	691.6
77.5°	527.2	453.9	427.3	513.3	620.8
80°	440.0	373.0	376.8	441.3	531.0
82.5°	338.8	288.3	303.4	365.4	417.2
85°	227.6	204.8	212.4	271.8	290.8
87.5°	112.5	108.7	116.3	159.3	159.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)