

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: P476253

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476253
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A19/156-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A19/156 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.1 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.2
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

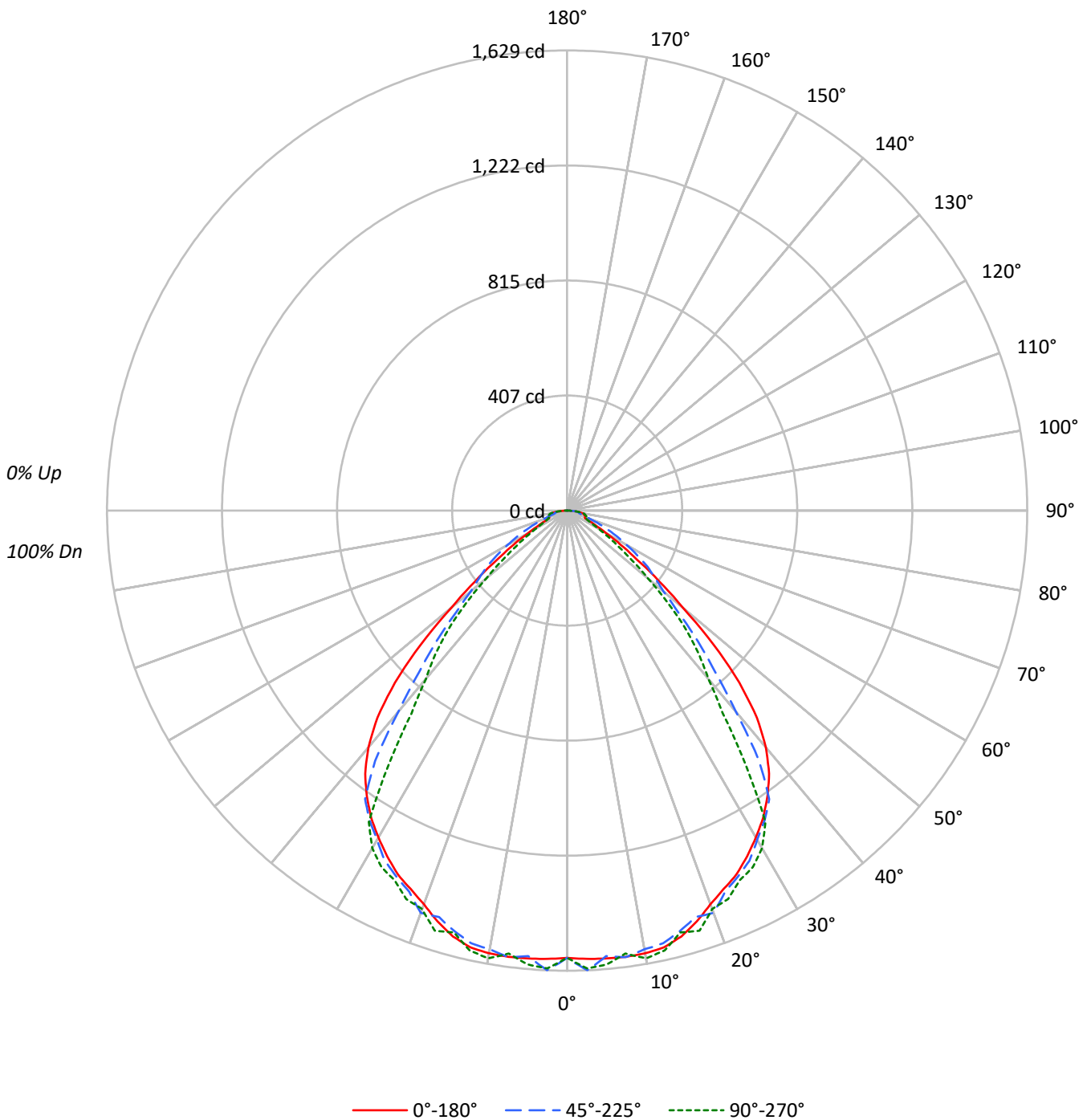
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	79	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	43	39	49	43	38	48	43	38	48	42	38	36
10	60	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4261	4261	4261
5°	4299	4277	4356
10°	4349	4309	4398
15°	4349	4294	4308
20°	4247	4340	4298
25°	4217	4246	4289
30°	4151	4181	4287
35°	4060	4097	3635
40°	3847	3261	2733
45°	3281	2487	2265
50°	2241	1862	1564
55°	1412	1632	1040
60°	853	1306	670
65°	535	1009	515
70°	534	674	548
75°	673	539	706
80°	877	652	927
85°	849	898	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.8	4.9
10°-20°	437.9	14.2
20°-30°	660.9	21.4
30°-40°	737.1	23.9
40°-50°	536.1	17.3
50°-60°	294.0	9.5
60°-70°	149.5	4.8
70°-80°	87.9	2.8
80°-90°	33.9	1.1
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°	1251.6	40.5
0°-40°	1988.7	64.4
0°-60°	2818.7	91.2
0°-90°	3090.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1592	1626	1584	1613	1613	152
15°	1561	1554	1542	1574	1546	438
25°	1420	1420	1430	1457	1444	653
35°	1236	1234	1247	1163	1106	769
45°	862	796	654	607	595	648
55°	301	372	348	311	222	284
65°	84	180	158	163	81	94
75°	65	115	52	104	68	67
85°	28	36	29	37	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1588.4	1620.7	1628.8	1628.8	1622.3
5°	1591.6	1625.6	1583.5	1612.6	1612.6
7.5°	1593.2	1598.1	1594.8	1601.3	1581.9
10°	1591.6	1580.3	1577.0	1617.5	1609.4
12.5°	1583.5	1539.8	1569.0	1556.0	1594.8
15°	1560.9	1554.4	1541.5	1573.8	1546.3
17.5°	1525.3	1528.5	1509.1	1525.3	1559.3
20°	1483.2	1497.8	1515.6	1520.4	1501.0
22.5°	1449.3	1454.1	1460.6	1476.8	1488.1
25°	1420.2	1420.2	1429.9	1457.4	1444.4
27.5°	1379.7	1383.0	1397.5	1405.6	1423.4
30°	1336.0	1339.3	1345.7	1383.0	1379.7
32.5°	1290.8	1294.0	1300.5	1324.7	1306.9
35°	1235.8	1234.1	1247.1	1163.0	1106.4
37.5°	1174.3	1172.7	1116.1	957.6	904.2
40°	1095.0	1088.6	928.4	803.9	778.0
42.5°	994.8	967.3	776.4	703.6	690.7
45°	862.1	795.8	653.5	606.6	595.2
47.5°	705.2	655.1	532.2	511.1	483.6
50°	535.4	538.6	444.8	430.3	373.6
52.5°	409.2	448.0	391.4	363.9	289.5
55°	300.9	372.0	347.8	310.6	221.6
57.5°	223.2	308.9	294.4	266.9	169.8
60°	158.5	257.2	242.6	229.7	124.5
62.5°	114.8	215.1	199.0	194.1	95.4
65°	84.1	179.5	158.5	163.4	80.9
67.5°	67.9	150.4	119.7	142.3	69.6
70°	67.9	134.3	85.7	126.2	69.6
72.5°	67.9	126.2	67.9	114.8	72.8
75°	64.7	114.8	51.8	103.5	67.9
77.5°	59.8	93.8	43.7	89.0	64.7
80°	56.6	69.6	42.1	69.6	59.8
82.5°	43.7	48.5	38.8	51.8	46.9
85°	27.5	35.6	29.1	37.2	29.1
87.5°	12.9	19.4	12.9	19.4	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)