

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: P476317

Luminaire Tested: **14GR-LD5-36-A125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476317
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A125-UNV-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3598.5 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

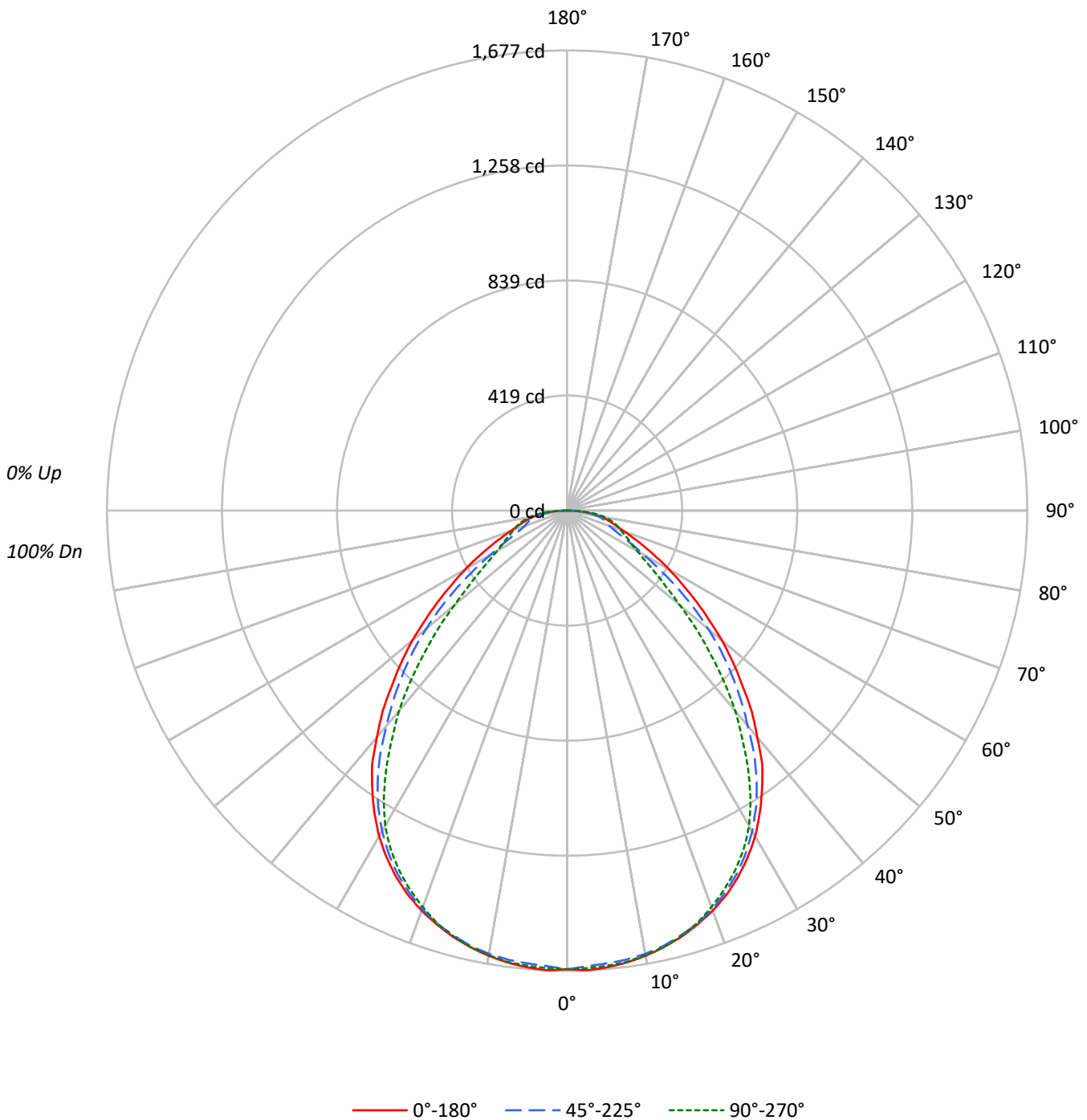
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58					56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46					44				
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38					36				
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34					33				
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4498	4498	4498
5°	4513	4475	4498
10°	4502	4481	4495
15°	4480	4464	4473
20°	4442	4426	4404
25°	4375	4340	4298
30°	4259	4191	4121
35°	4069	3956	3777
40°	3786	3596	3349
45°	3440	3233	2807
50°	3081	2808	2237
55°	2676	2291	1817
60°	2309	1733	1584
65°	1975	1384	1555
70°	1744	1290	1632
75°	1738	1478	1861
80°	1880	1723	2139
85°	2013	1834	2452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	4.4
10°-20°	452.9	12.6
20°-30°	672.0	18.7
30°-40°	746.3	20.7
40°-50°	643.6	17.9
50°-60°	436.5	12.1
60°-70°	252.4	7.0
70°-80°	164.7	4.6
80°-90°	71.8	2.0
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°	1283.2	35.7
0°-40°	2029.5	56.4
0°-60°	3109.5	86.4
0°-90°	3598.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1671	1664	1657	1668	1665	159
15°	1608	1605	1602	1613	1606	453
25°	1474	1472	1462	1458	1448	677
35°	1238	1227	1204	1171	1150	772
45°	904	890	850	779	738	699
55°	570	559	488	416	387	513
65°	310	275	217	222	244	312
75°	167	151	142	159	179	178
85°	65	64	59	83	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1671.6	1671.6	1671.6	1671.6	1671.6
2.5°	1676.7	1670.8	1661.6	1671.6	1669.1
5°	1670.8	1664.1	1656.6	1668.3	1665.0
7.5°	1661.6	1654.9	1650.7	1660.8	1659.1
10°	1647.4	1642.4	1639.9	1652.4	1644.9
12.5°	1629.8	1625.7	1624.8	1634.9	1629.0
15°	1608.1	1604.7	1602.2	1613.1	1605.6
17.5°	1581.3	1579.7	1578.0	1583.0	1576.3
20°	1551.2	1549.6	1545.4	1546.2	1537.8
22.5°	1516.1	1514.4	1506.1	1504.4	1495.2
25°	1473.5	1471.8	1461.7	1457.6	1447.5
27.5°	1425.0	1425.8	1409.1	1401.5	1392.3
30°	1370.6	1367.3	1348.9	1336.3	1326.3
32.5°	1307.0	1302.9	1281.1	1261.1	1243.5
35°	1238.5	1226.8	1204.2	1170.7	1149.8
37.5°	1168.2	1152.3	1118.9	1076.2	1048.6
40°	1077.9	1061.2	1023.6	975.1	953.3
42.5°	996.8	979.2	937.4	880.6	846.3
45°	904.0	889.8	849.6	779.4	737.6
47.5°	819.5	804.5	763.5	680.7	639.7
50°	735.9	719.2	670.7	581.2	534.4
52.5°	648.9	639.7	580.4	490.9	453.2
55°	570.3	558.6	488.4	415.6	387.2
57.5°	495.1	475.8	399.7	345.4	334.5
60°	429.0	402.2	322.0	291.8	294.4
62.5°	366.3	334.5	264.3	250.0	264.3
65°	310.2	275.1	217.4	222.4	244.2
67.5°	260.9	227.5	184.8	204.9	223.3
70°	221.6	194.0	163.9	186.5	207.4
72.5°	189.8	171.4	153.9	171.4	194.0
75°	167.2	151.4	142.2	158.9	179.0
77.5°	146.3	133.8	129.6	143.0	159.7
80°	121.3	115.4	111.2	128.8	138.0
82.5°	93.7	91.2	87.8	109.5	113.7
85°	65.2	63.6	59.4	82.8	79.4
87.5°	34.3	32.6	30.1	43.5	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)