

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: P476282

Luminaire Tested: **14GR-LD5-40-A-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476282
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L830-CD1-U
Description: GR 1'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: 3718.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

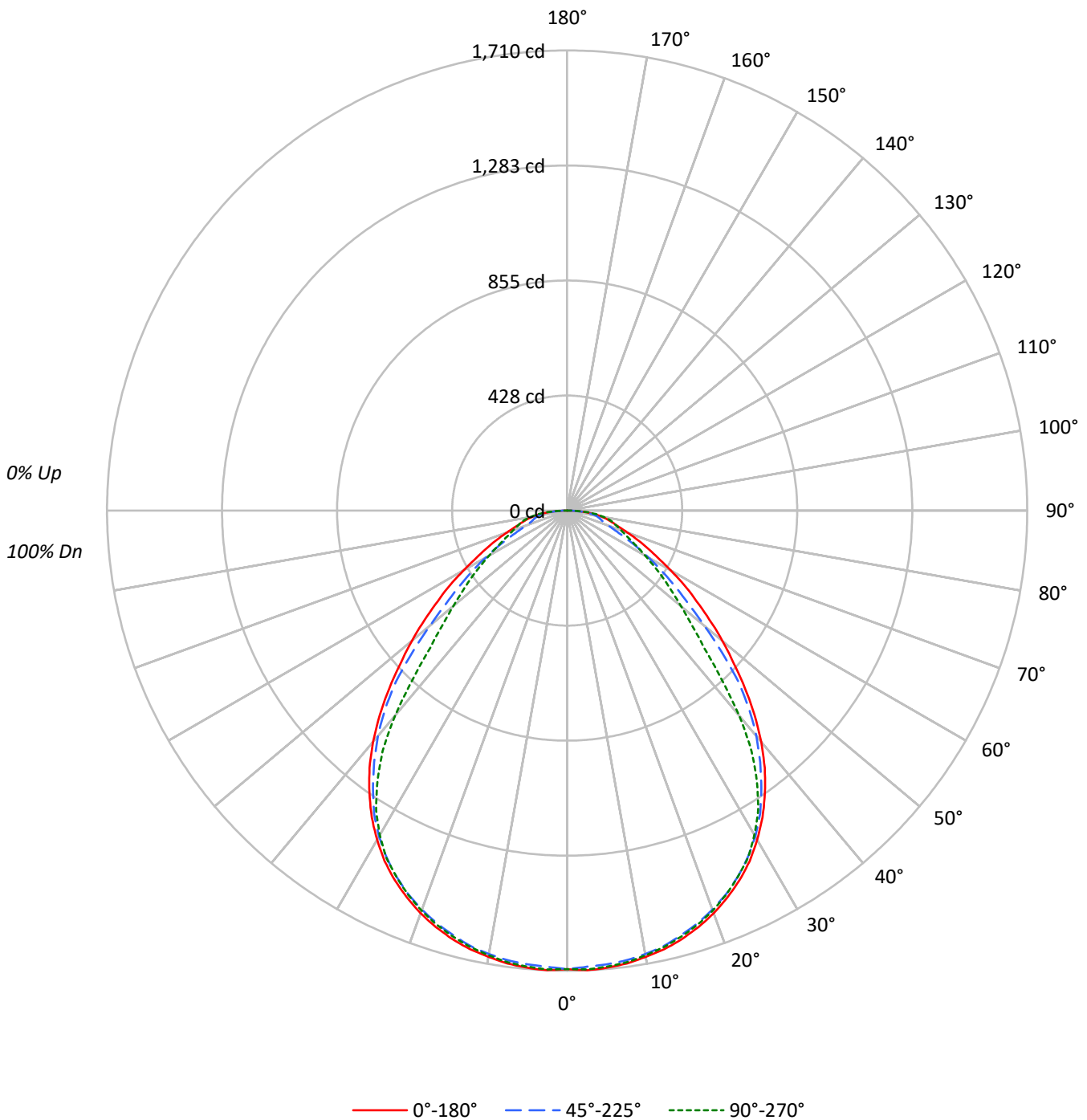
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	74	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	47	59	52	47		58	51	47		56	51	46	44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48	42	38	36
9	61	48	40	35	59	47	40	35	46	39	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	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5741	5741	5741
5°	5769	5725	5754
10°	5762	5726	5741
15°	5751	5699	5717
20°	5710	5657	5673
25°	5634	5580	5583
30°	5497	5439	5416
35°	5271	5176	5058
40°	4934	4809	4376
45°	4457	4288	3420
50°	3952	3481	2893
55°	3450	2856	2551
60°	2991	2351	2253
65°	2623	1886	2080
70°	2340	1600	2094
75°	2282	1687	2338
80°	2528	2129	2680
85°	2637	2269	3139



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	4.3
10°-20°	463.1	12.5
20°-30°	692.7	18.6
30°-40°	782.0	21.0
40°-50°	663.4	17.8
50°-60°	448.8	12.1
60°-70°	267.9	7.2
70°-80°	167.8	4.5
80°-90°	70.6	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°	1317.5	35.4
0°-40°	2099.5	56.5
0°-60°	3211.7	86.4
0°-90°	3718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1706	1700	1693	1704	1701	162
15°	1648	1645	1634	1645	1639	465
25°	1516	1510	1501	1508	1502	697
35°	1281	1273	1258	1247	1230	798
45°	935	939	900	771	718	721
55°	587	560	486	435	434	529
65°	329	273	237	252	261	329
75°	175	156	130	171	180	188
85°	68	65	59	76	81	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.8	1703.8	1703.8	1703.8	1703.8
2.5°	1709.8	1704.5	1696.8	1707.3	1706.4
5°	1705.5	1700.4	1692.6	1704.5	1701.1
7.5°	1697.7	1693.3	1685.7	1696.8	1693.3
10°	1683.9	1680.4	1673.5	1683.0	1677.9
12.5°	1669.2	1666.7	1658.0	1666.7	1661.4
15°	1648.5	1645.1	1633.8	1645.1	1638.9
17.5°	1622.6	1618.3	1608.8	1618.3	1613.0
20°	1592.3	1587.3	1577.7	1587.3	1582.0
22.5°	1556.1	1551.7	1543.2	1551.7	1544.8
25°	1515.5	1510.4	1500.8	1507.7	1501.7
27.5°	1468.9	1462.0	1453.3	1458.6	1455.1
30°	1412.7	1404.2	1398.0	1398.0	1392.0
32.5°	1351.4	1345.4	1335.1	1328.9	1321.1
35°	1281.4	1272.9	1258.2	1247.0	1229.6
37.5°	1206.4	1196.1	1177.9	1149.3	1126.1
40°	1121.7	1108.7	1093.3	1037.1	994.8
42.5°	1031.1	1028.4	1001.7	905.8	847.1
45°	935.2	938.7	899.9	771.2	717.7
47.5°	838.4	850.6	779.9	653.7	626.1
50°	753.9	758.1	664.0	567.4	551.8
52.5°	666.7	659.7	566.5	499.1	487.8
55°	587.2	559.6	486.2	435.2	434.3
57.5°	517.2	466.2	415.3	377.4	381.8
60°	443.8	386.8	348.8	328.1	334.3
62.5°	379.1	324.7	290.9	285.0	295.3
65°	329.0	272.8	236.6	252.2	260.9
67.5°	281.5	234.0	192.5	229.7	233.1
70°	237.5	202.8	162.4	211.6	212.5
72.5°	201.2	179.6	140.7	191.8	194.3
75°	175.3	156.3	129.6	170.9	179.6
77.5°	153.7	133.8	120.0	147.7	162.4
80°	130.3	107.9	109.7	123.4	138.1
82.5°	100.2	83.7	87.2	101.9	112.2
85°	68.2	64.7	58.7	76.0	81.2
87.5°	36.3	34.6	30.3	43.1	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)