

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: P476291

Luminaire Tested: **14GR-LD5-40-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476291
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.8 lumens
Efficiency: N/A
Efficacy: 123.1 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

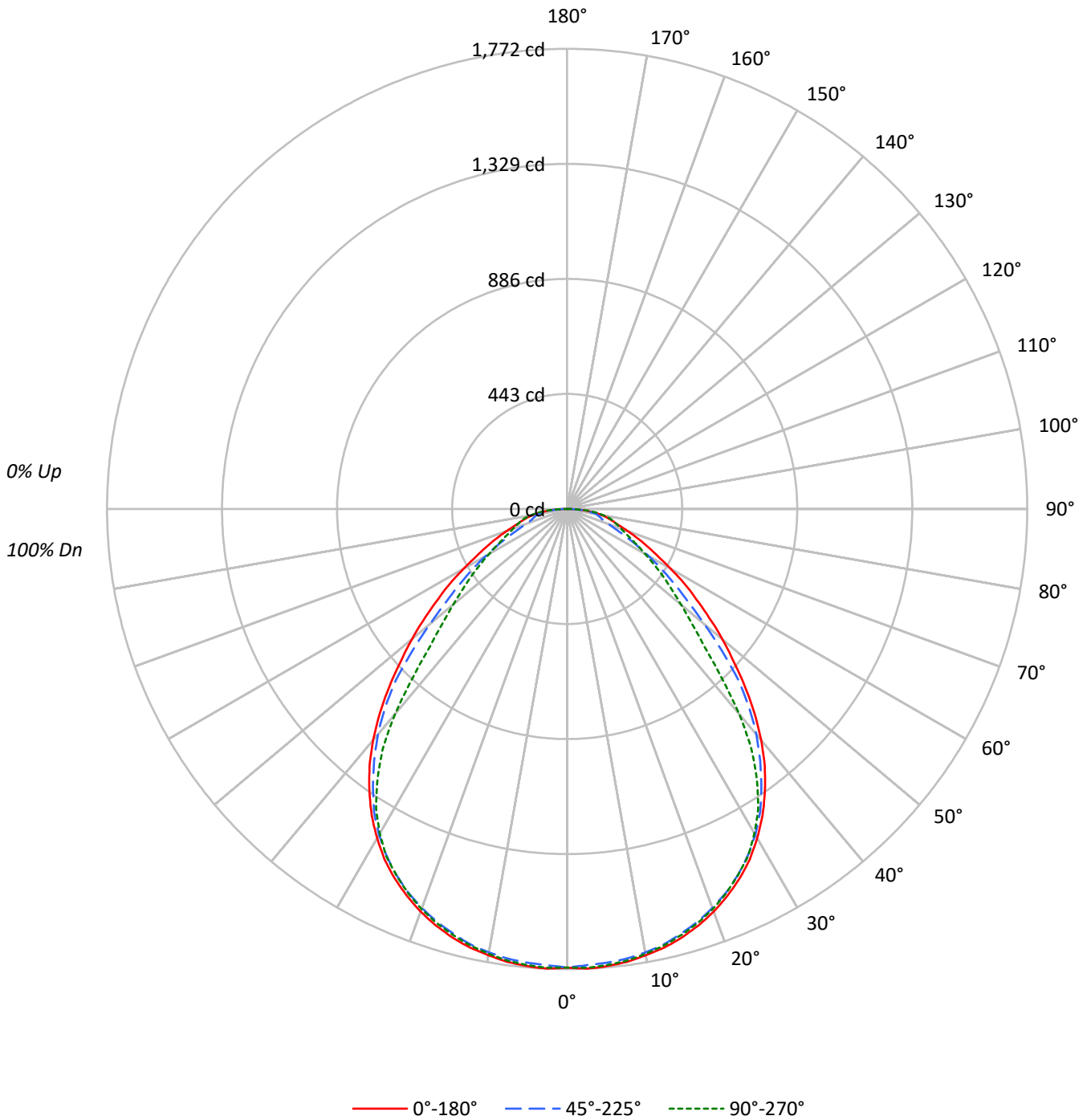
Input Watts (W): 31.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5949	5949	5949
5°	5978	5933	5963
10°	5971	5934	5949
15°	5959	5906	5925
20°	5917	5862	5879
25°	5839	5782	5786
30°	5696	5637	5613
35°	5462	5364	5241
40°	5113	4983	4535
45°	4618	4444	3544
50°	4096	3607	2997
55°	3575	2960	2644
60°	3099	2436	2334
65°	2719	1954	2155
70°	2425	1658	2169
75°	2366	1748	2424
80°	2622	2206	2777
85°	2730	2354	3255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	4.3
10°-20°	479.9	12.5
20°-30°	717.9	18.6
30°-40°	810.3	21.0
40°-50°	687.5	17.8
50°-60°	465.1	12.1
60°-70°	277.6	7.2
70°-80°	173.9	4.5
80°-90°	73.2	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°	1365.3	35.4
0°-40°	2175.6	56.5
0°-60°	3328.2	86.4
0°-90°	3852.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1767	1762	1754	1766	1763	168
15°	1708	1705	1693	1705	1698	482
25°	1570	1565	1555	1562	1556	722
35°	1328	1319	1304	1292	1274	827
45°	969	973	932	799	744	747
55°	608	580	504	451	450	548
65°	341	283	245	261	270	341
75°	182	162	134	177	186	195
85°	71	67	61	79	84	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1765.6	1765.6	1765.6	1765.6	1765.6
2.5°	1771.8	1766.4	1758.3	1769.2	1768.2
5°	1767.3	1762.0	1754.0	1766.4	1762.8
7.5°	1759.2	1754.7	1746.8	1758.3	1754.7
10°	1745.0	1741.4	1734.2	1744.0	1738.8
12.5°	1729.7	1727.1	1718.1	1727.1	1721.7
15°	1708.3	1704.8	1693.1	1704.8	1698.4
17.5°	1681.5	1677.0	1667.2	1677.0	1671.5
20°	1650.1	1644.8	1634.9	1644.8	1639.4
22.5°	1612.5	1608.0	1599.2	1608.0	1600.9
25°	1570.4	1565.2	1555.2	1562.4	1556.2
27.5°	1522.2	1515.0	1506.0	1511.5	1507.9
30°	1463.9	1455.1	1448.7	1448.7	1442.5
32.5°	1400.4	1394.2	1383.5	1377.1	1369.1
35°	1327.9	1319.1	1303.9	1292.2	1274.2
37.5°	1250.2	1239.4	1220.7	1191.0	1166.9
40°	1162.4	1148.9	1132.9	1074.7	1030.9
42.5°	1068.5	1065.7	1038.1	938.7	877.8
45°	969.1	972.7	932.5	799.1	743.7
47.5°	868.8	881.4	808.1	677.4	648.8
50°	781.3	785.6	688.1	588.0	571.8
52.5°	690.9	683.6	587.0	517.2	505.5
55°	608.5	579.9	503.8	451.0	450.1
57.5°	535.9	483.2	430.4	391.1	395.6
60°	459.9	400.9	361.4	340.0	346.4
62.5°	392.8	336.4	301.5	295.3	306.0
65°	341.0	282.7	245.1	261.3	270.3
67.5°	291.7	242.5	199.5	238.0	241.6
70°	246.1	210.2	168.3	219.2	220.2
72.5°	208.5	186.2	145.8	198.7	201.4
75°	181.7	161.9	134.3	177.1	186.2
77.5°	159.3	138.6	124.4	153.1	168.3
80°	135.1	111.8	113.7	127.9	143.1
82.5°	103.9	86.8	90.4	105.6	116.3
85°	70.6	67.1	60.9	78.7	84.2
87.5°	37.6	35.9	31.4	44.7	42.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)