

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: P213436

Luminaire Tested: **14GR-LD5-43-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3723.8 lumens
Efficiency: N/A
Efficacy: 88.7 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

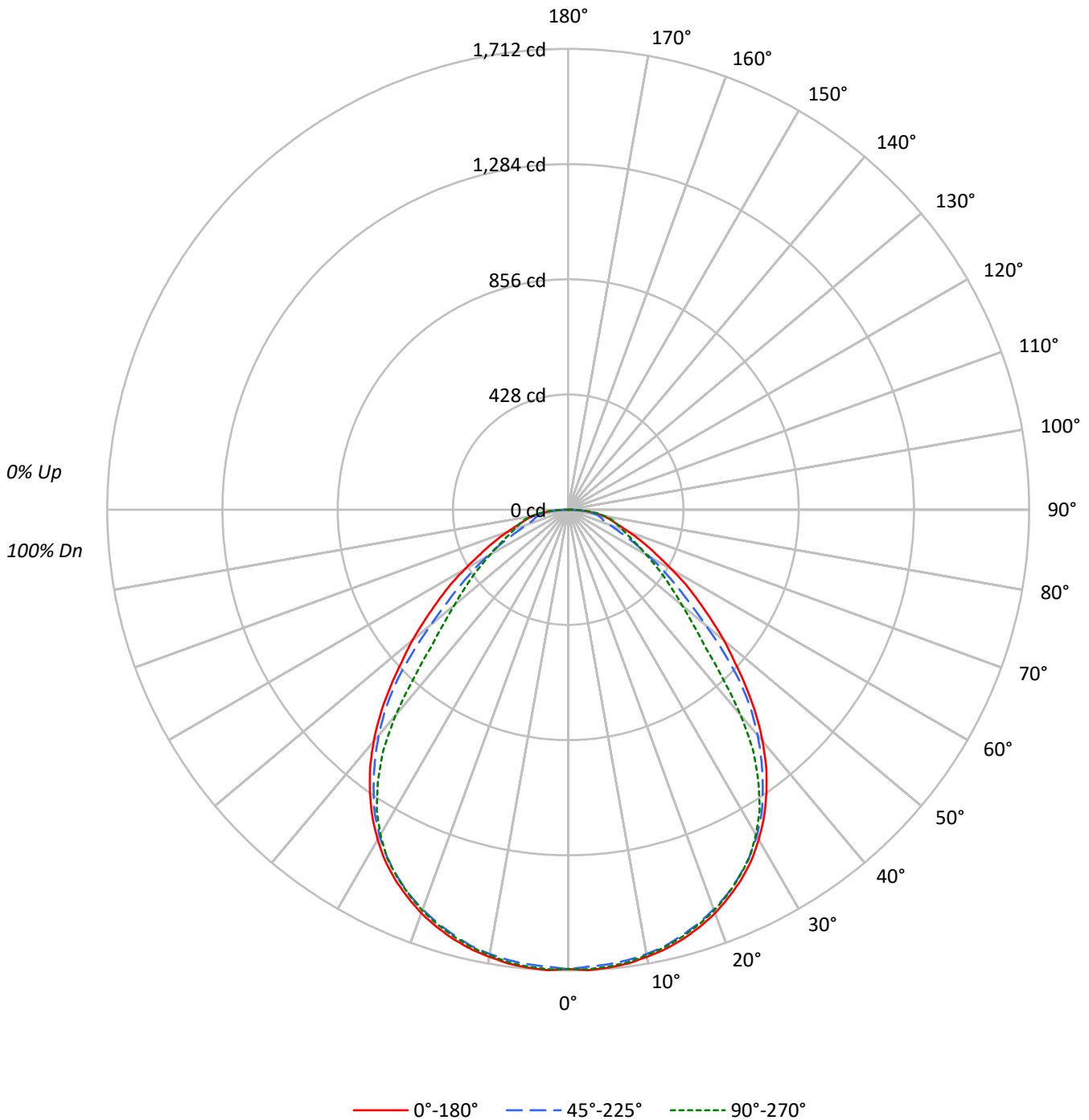
Input Watts (W): 42
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5750	5750	5750
5°	5778	5734	5763
10°	5770	5735	5750
15°	5759	5708	5727
20°	5719	5666	5682
25°	5643	5589	5592
30°	5506	5448	5424
35°	5280	5184	5066
40°	4942	4817	4382
45°	4463	4294	3425
50°	3958	3487	2897
55°	3455	2860	2556
60°	2996	2355	2256
65°	2628	1890	2083
70°	2344	1602	2097
75°	2286	1690	2342
80°	2534	2131	2686
85°	2641	2273	3143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	4.3
10°-20°	463.8	12.5
20°-30°	693.8	18.6
30°-40°	783.2	21.0
40°-50°	664.4	17.8
50°-60°	449.6	12.1
60°-70°	268.4	7.2
70°-80°	168.0	4.5
80°-90°	70.7	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°	1319.5	35.4
0°-40°	2102.7	56.5
0°-60°	3216.7	86.4
0°-90°	3723.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3723.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1708	1703	1695	1707	1704	162
15°	1651	1648	1636	1648	1642	466
25°	1518	1513	1503	1510	1504	698
35°	1284	1275	1260	1249	1232	800
45°	937	940	901	772	719	722
55°	588	560	487	436	435	530
65°	330	273	237	253	261	329
75°	176	156	130	171	180	189
85°	68	65	59	76	81	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1706.4	1706.4	1706.4	1706.4	1706.4
2.5°	1712.4	1707.3	1699.5	1709.9	1709.0
5°	1708.1	1703.0	1695.1	1707.3	1703.8
7.5°	1700.4	1696.0	1688.3	1699.5	1696.0
10°	1686.5	1683.0	1676.1	1685.7	1680.4
12.5°	1671.8	1669.3	1660.6	1669.3	1664.0
15°	1651.0	1647.6	1636.3	1647.6	1641.6
17.5°	1625.1	1620.8	1611.3	1620.8	1615.6
20°	1594.9	1589.6	1580.2	1589.6	1584.5
22.5°	1558.5	1554.2	1545.5	1554.2	1547.3
25°	1517.9	1512.7	1503.2	1510.1	1504.1
27.5°	1471.2	1464.2	1455.6	1460.8	1457.4
30°	1415.0	1406.3	1400.3	1400.3	1394.1
32.5°	1353.6	1347.4	1337.1	1331.0	1323.3
35°	1283.5	1274.9	1260.2	1248.9	1231.6
37.5°	1208.2	1197.9	1179.7	1151.2	1127.8
40°	1123.5	1110.5	1095.0	1038.7	996.3
42.5°	1032.7	1030.1	1003.3	907.3	848.5
45°	936.6	940.2	901.2	772.4	718.7
47.5°	839.8	851.9	781.0	654.7	627.0
50°	755.1	759.4	665.1	568.2	552.6
52.5°	667.7	660.7	567.3	499.9	488.7
55°	588.2	560.5	486.9	435.9	435.1
57.5°	518.1	467.1	416.0	378.0	382.3
60°	444.5	387.4	349.4	328.7	334.7
62.5°	379.7	325.2	291.5	285.4	295.8
65°	329.6	273.3	237.0	252.6	261.2
67.5°	282.0	234.4	192.9	230.0	233.5
70°	237.9	203.2	162.6	211.9	212.8
72.5°	201.5	179.9	141.0	192.0	194.6
75°	175.6	156.5	129.8	171.2	179.9
77.5°	153.9	134.1	120.2	147.9	162.6
80°	130.6	108.1	109.8	123.7	138.4
82.5°	100.4	83.9	87.4	102.1	112.4
85°	68.3	64.8	58.8	76.1	81.3
87.5°	36.3	34.6	30.3	43.3	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)