

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: P213414

Luminaire Tested: **14GR-LD5-40-A-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213414
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-LD5-40-A-UNV-L935-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3475.7 lumens
Efficiency: N/A
Efficacy: 89.6 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

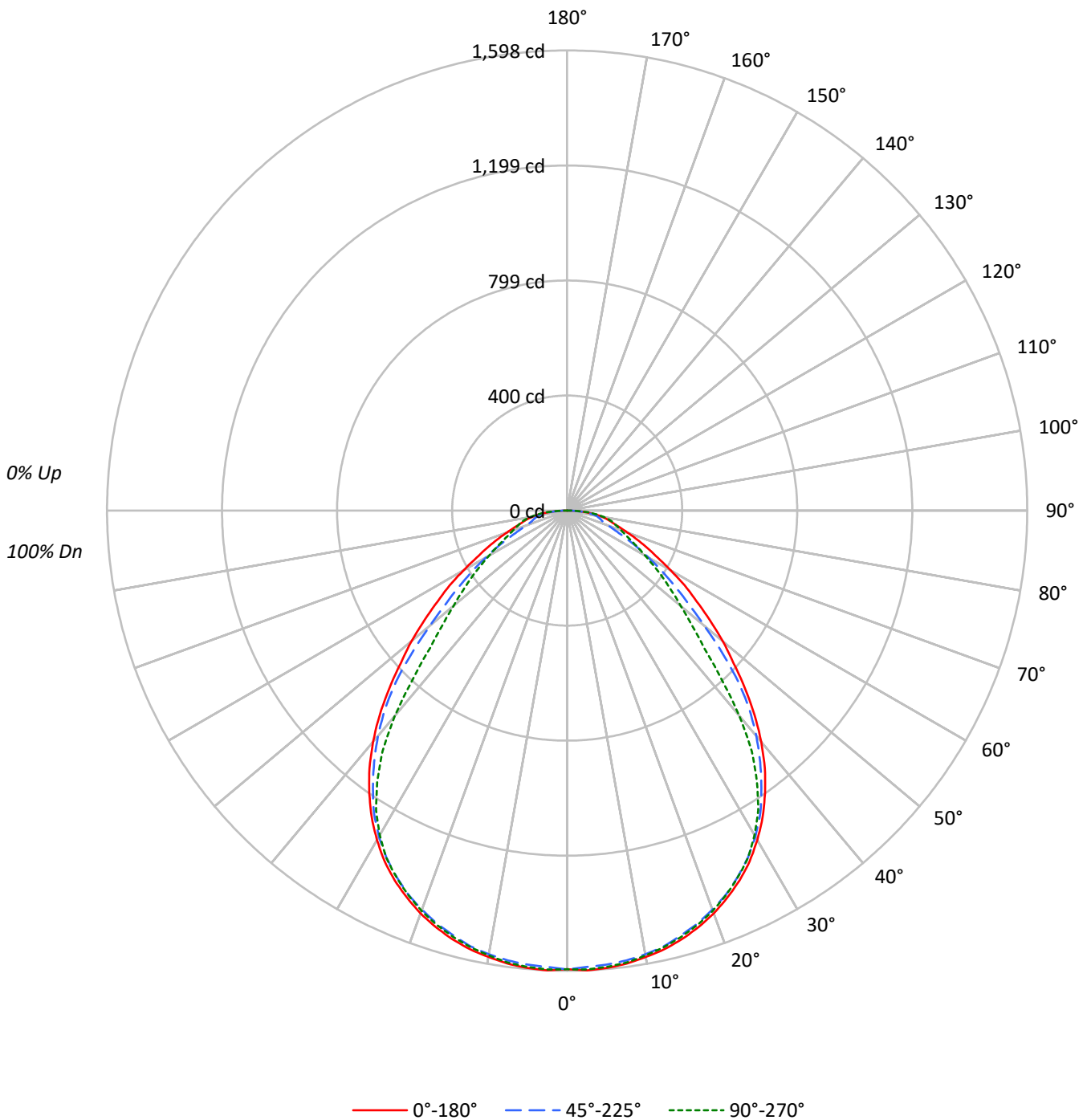
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5367	5367	5367
5°	5393	5352	5379
10°	5386	5353	5367
15°	5376	5328	5345
20°	5338	5288	5303
25°	5267	5216	5219
30°	5138	5085	5063
35°	4928	4838	4728
40°	4612	4495	4091
45°	4166	4009	3197
50°	3694	3254	2704
55°	3225	2670	2385
60°	2796	2198	2105
65°	2452	1764	1944
70°	2187	1495	1957
75°	2134	1577	2186
80°	2365	1989	2507
85°	2467	2123	2934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	4.3
10°-20°	432.9	12.5
20°-30°	647.6	18.6
30°-40°	731.0	21.0
40°-50°	620.2	17.8
50°-60°	419.6	12.1
60°-70°	250.5	7.2
70°-80°	156.8	4.5
80°-90°	66.0	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°	1231.6	35.4
0°-40°	1962.6	56.5
0°-60°	3002.4	86.4
0°-90°	3475.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3475.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1594	1590	1582	1594	1590	152
15°	1541	1538	1527	1538	1532	435
25°	1417	1412	1403	1410	1404	651
35°	1198	1190	1176	1166	1150	746
45°	874	878	841	721	671	674
55°	549	523	454	407	406	494
65°	308	255	221	236	244	307
75°	164	146	121	160	168	176
85°	64	60	55	71	76	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1592.7	1592.7	1592.7	1592.7	1592.7
2.5°	1598.3	1593.5	1586.3	1596.0	1595.1
5°	1594.3	1589.5	1582.2	1593.5	1590.3
7.5°	1587.0	1583.0	1575.7	1586.3	1583.0
10°	1574.1	1570.9	1564.4	1573.4	1568.5
12.5°	1560.4	1558.0	1549.9	1558.0	1553.1
15°	1541.0	1537.8	1527.3	1537.8	1532.1
17.5°	1516.8	1512.7	1503.9	1512.7	1507.9
20°	1488.5	1483.8	1474.8	1483.8	1478.9
22.5°	1454.7	1450.6	1442.5	1450.6	1444.1
25°	1416.7	1411.8	1403.0	1409.5	1403.8
27.5°	1373.1	1366.6	1358.6	1363.4	1360.2
30°	1320.6	1312.6	1307.0	1307.0	1301.3
32.5°	1263.4	1257.7	1248.0	1242.4	1235.0
35°	1198.0	1189.9	1176.1	1165.7	1149.5
37.5°	1127.7	1118.0	1101.1	1074.5	1052.6
40°	1048.6	1036.5	1022.0	969.5	930.0
42.5°	963.8	961.4	936.4	846.8	791.9
45°	874.2	877.5	841.2	720.9	670.8
47.5°	783.9	795.2	729.0	611.1	585.2
50°	704.7	708.7	620.8	530.4	515.9
52.5°	623.2	616.8	529.6	466.6	456.1
55°	548.9	523.1	454.5	406.8	406.0
57.5°	483.6	435.9	388.3	352.8	356.8
60°	414.9	361.7	326.1	306.8	312.4
62.5°	354.4	303.5	272.0	266.4	276.1
65°	307.5	255.1	221.2	235.7	243.8
67.5°	263.2	218.8	180.0	214.7	217.9
70°	222.0	189.7	151.7	197.8	198.6
72.5°	188.1	167.9	131.6	179.2	181.6
75°	163.9	146.1	121.1	159.8	167.9
77.5°	143.6	125.1	112.2	138.0	151.7
80°	121.9	100.9	102.5	115.4	129.2
82.5°	93.7	78.3	81.5	95.3	105.0
85°	63.8	60.5	54.9	71.1	75.9
87.5°	33.9	32.3	28.2	40.4	37.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)