

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: P213435

Luminaire Tested: **14GR-LD5-40-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P213435
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-L940-CD1-U
Description: METALUX GR 1X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3516.5 lumens
Efficiency: N/A
Efficacy: 90.6 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

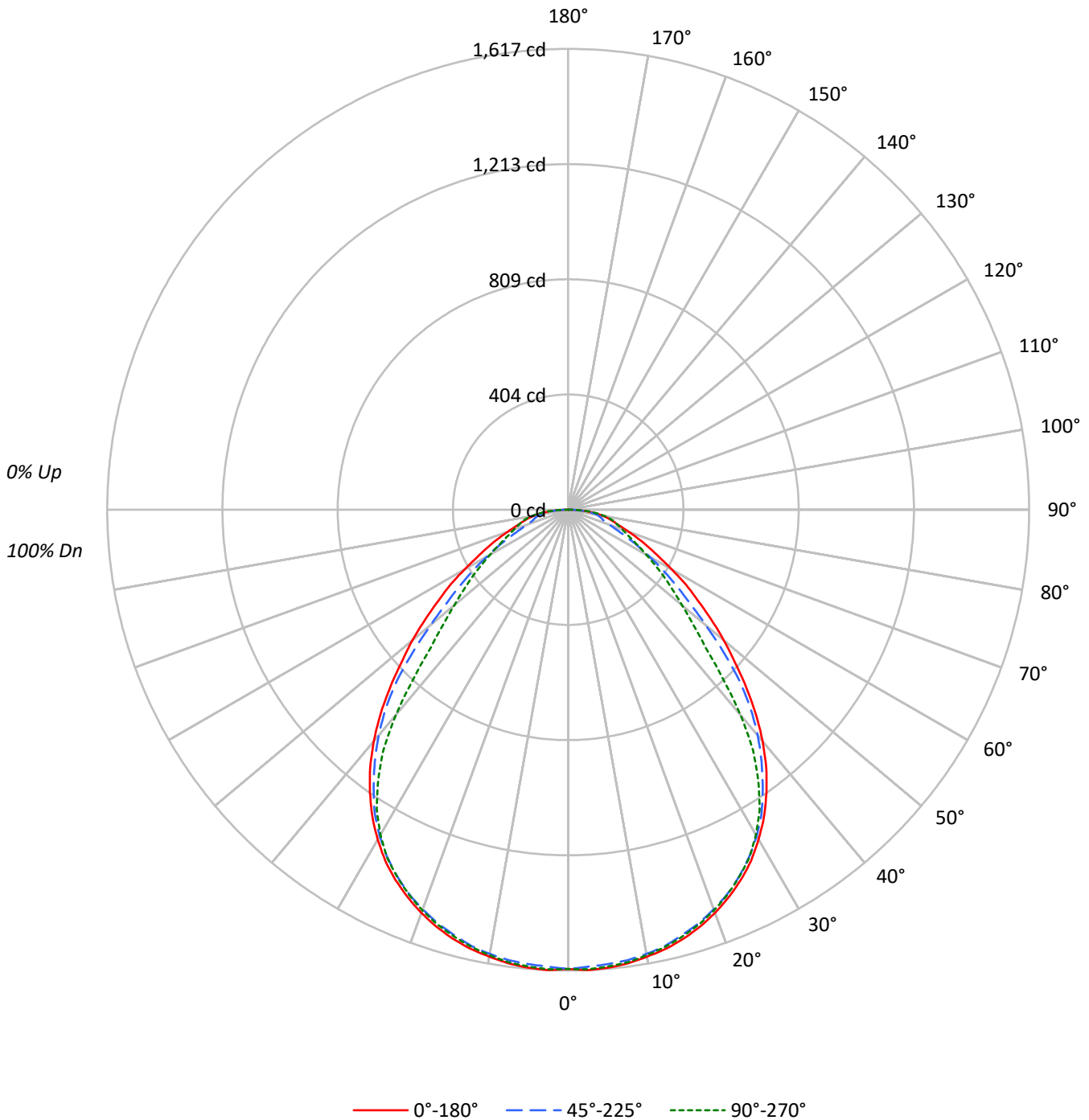
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5430	5430	5430
5°	5456	5415	5442
10°	5449	5416	5430
15°	5439	5390	5407
20°	5400	5351	5365
25°	5329	5278	5281
30°	5199	5145	5123
35°	4986	4895	4784
40°	4667	4548	4139
45°	4215	4056	3234
50°	3738	3293	2736
55°	3263	2701	2413
60°	2829	2224	2130
65°	2480	1784	1966
70°	2213	1512	1979
75°	2159	1596	2211
80°	2393	2012	2536
85°	2494	2150	2969



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	4.3
10°-20°	438.0	12.5
20°-30°	655.2	18.6
30°-40°	739.6	21.0
40°-50°	627.5	17.8
50°-60°	424.5	12.1
60°-70°	253.4	7.2
70°-80°	158.7	4.5
80°-90°	66.8	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°	1246.1	35.4
0°-40°	1985.7	56.5
0°-60°	3037.7	86.4
0°-90°	3516.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3516.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1612	1612	1612	1612	1612	
5°	1613	1608	1601	1612	1609	153
15°	1559	1556	1545	1556	1550	440
25°	1433	1428	1420	1426	1420	659
35°	1212	1204	1190	1179	1163	755
45°	884	888	851	729	679	682
55°	555	529	460	412	411	500
65°	311	258	224	238	247	311
75°	166	148	123	162	170	178
85°	64	61	56	72	77	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1611.5	1611.5	1611.5	1611.5	1611.5
2.5°	1617.1	1612.2	1604.9	1614.7	1613.9
5°	1613.1	1608.2	1600.8	1612.2	1609.0
7.5°	1605.7	1601.7	1594.3	1604.9	1601.7
10°	1592.6	1589.4	1582.8	1591.9	1587.0
12.5°	1578.8	1576.3	1568.1	1576.3	1571.4
15°	1559.2	1555.9	1545.2	1555.9	1550.1
17.5°	1534.7	1530.5	1521.6	1530.5	1525.6
20°	1506.0	1501.2	1492.2	1501.2	1496.3
22.5°	1471.8	1467.7	1459.5	1467.7	1461.1
25°	1433.4	1428.5	1419.5	1426.1	1420.3
27.5°	1389.2	1382.7	1374.5	1379.4	1376.2
30°	1336.2	1328.0	1322.3	1322.3	1316.6
32.5°	1278.2	1272.5	1262.7	1257.0	1249.6
35°	1212.1	1203.9	1190.0	1179.4	1163.1
37.5°	1141.0	1131.2	1114.0	1087.1	1065.0
40°	1061.0	1048.7	1034.0	980.9	940.9
42.5°	975.2	972.7	947.5	856.7	801.3
45°	884.5	887.8	851.1	729.4	678.7
47.5°	793.1	804.5	737.5	618.3	592.1
50°	713.0	717.1	628.1	536.6	521.9
52.5°	630.6	624.0	535.8	472.1	461.5
55°	555.4	529.2	459.8	411.6	410.8
57.5°	489.3	441.0	392.8	356.9	361.0
60°	419.8	365.9	330.0	310.4	316.0
62.5°	358.5	307.1	275.2	269.5	279.3
65°	311.1	258.1	223.8	238.5	246.6
67.5°	266.3	221.4	182.1	217.2	220.5
70°	224.6	192.0	153.5	200.1	200.9
72.5°	190.3	169.8	133.1	181.3	183.8
75°	165.8	147.8	122.6	161.7	169.8
77.5°	145.3	126.6	113.5	139.7	153.5
80°	123.3	102.1	103.7	116.8	130.7
82.5°	94.8	79.2	82.5	96.4	106.2
85°	64.5	61.2	55.6	71.9	76.8
87.5°	34.3	32.7	28.6	40.8	38.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)