

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: P219117

Luminaire Tested: **24GR-LD5-42-A-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P219117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A-UNV-L940-CD1-U
Description: METALUX GR 2X4 LED TROFFER WITH A LENS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.4 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

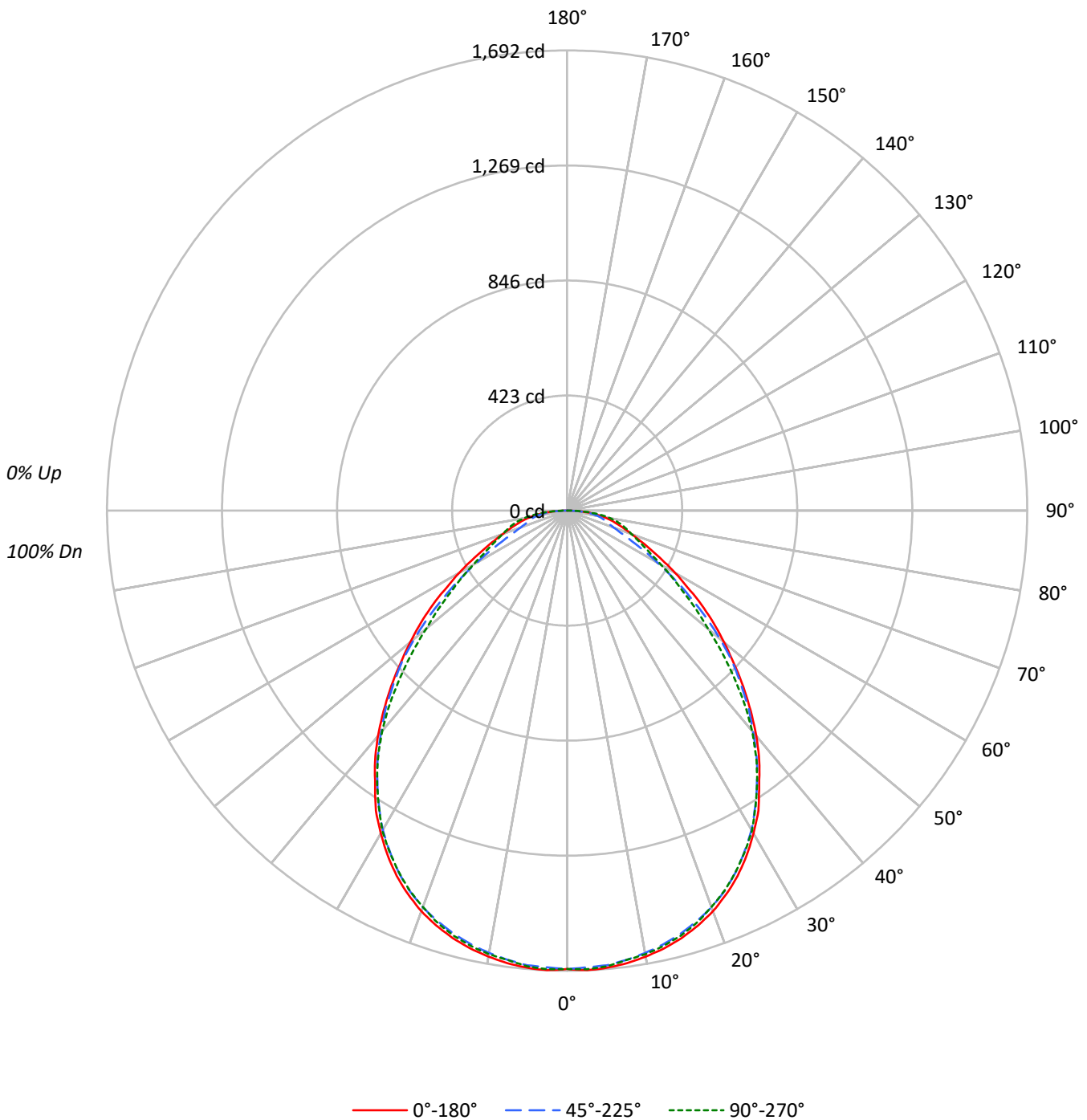
Input Watts (W): 34.617
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2582	2582	2582
5°	2594	2580	2586
10°	2590	2569	2576
15°	2580	2554	2565
20°	2555	2530	2529
25°	2506	2479	2477
30°	2423	2398	2403
35°	2301	2275	2278
40°	2164	2127	2114
45°	1983	1957	1879
50°	1793	1744	1612
55°	1610	1466	1390
60°	1410	1179	1223
65°	1230	927	1125
70°	1125	810	1125
75°	1125	862	1240
80°	1222	1015	1413
85°	1341	1146	1517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	4.2
10°-20°	455.6	12.0
20°-30°	675.5	17.8
30°-40°	762.1	20.1
40°-50°	690.2	18.2
50°-60°	497.9	13.1
60°-70°	297.3	7.8
70°-80°	183.8	4.8
80°-90°	77.4	2.0
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°	1290.7	34.0
0°-40°	2052.8	54.0
0°-60°	3240.9	85.3
0°-90°	3799.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1688	1685	1678	1676	1682	160
15°	1627	1617	1611	1611	1618	459
25°	1483	1474	1467	1462	1466	681
35°	1231	1229	1217	1217	1218	770
45°	916	910	903	881	868	706
55°	603	584	549	522	521	538
65°	339	299	256	290	310	341
75°	190	165	146	181	210	203
85°	76	67	65	85	86	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1685.8	1685.8	1685.8	1685.8	1685.8
2.5°	1691.6	1687.0	1681.0	1684.6	1687.5
5°	1687.5	1685.2	1678.1	1676.4	1682.2
7.5°	1678.7	1672.9	1666.4	1669.3	1667.0
10°	1665.2	1660.0	1651.7	1652.3	1656.4
12.5°	1648.8	1642.3	1633.6	1635.9	1639.4
15°	1627.0	1617.1	1610.6	1611.2	1617.7
17.5°	1599.5	1591.9	1583.6	1585.4	1588.3
20°	1567.8	1563.7	1552.0	1548.4	1551.4
22.5°	1527.9	1520.2	1513.8	1512.1	1512.7
25°	1482.6	1474.5	1466.8	1461.6	1465.7
27.5°	1429.8	1422.8	1412.8	1411.1	1414.6
30°	1370.0	1364.7	1355.9	1353.6	1358.8
32.5°	1308.9	1300.1	1287.8	1287.8	1289.0
35°	1230.8	1229.1	1216.8	1217.3	1218.5
37.5°	1160.4	1152.2	1145.2	1138.1	1141.6
40°	1082.4	1072.9	1063.6	1058.9	1057.1
42.5°	998.5	991.4	987.3	970.3	966.1
45°	915.6	909.8	903.3	881.1	867.6
47.5°	831.2	830.0	824.7	785.4	771.8
50°	752.5	750.7	731.9	690.2	676.7
52.5°	677.9	666.2	641.6	600.5	598.1
55°	602.8	584.0	548.9	521.8	520.6
57.5°	523.6	501.3	465.4	450.8	458.4
60°	460.2	426.1	385.0	386.8	399.1
62.5°	394.5	356.3	315.8	333.4	348.0
65°	339.3	298.8	255.9	290.5	310.5
67.5°	291.1	253.5	212.5	258.9	278.2
70°	251.2	220.7	180.8	229.5	251.2
72.5°	219.6	191.4	160.2	206.1	231.3
75°	190.1	164.9	145.6	181.4	209.6
77.5°	164.9	140.3	131.5	160.2	187.8
80°	138.5	116.2	115.1	139.7	160.2
82.5°	108.0	92.7	92.7	116.8	129.2
85°	76.3	66.9	65.2	85.1	86.3
87.5°	39.3	37.6	34.1	44.6	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)