

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: P234083

Luminaire Tested: **22GR-LD5-50-F1-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F1-UNV-L940-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH F1 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4238.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

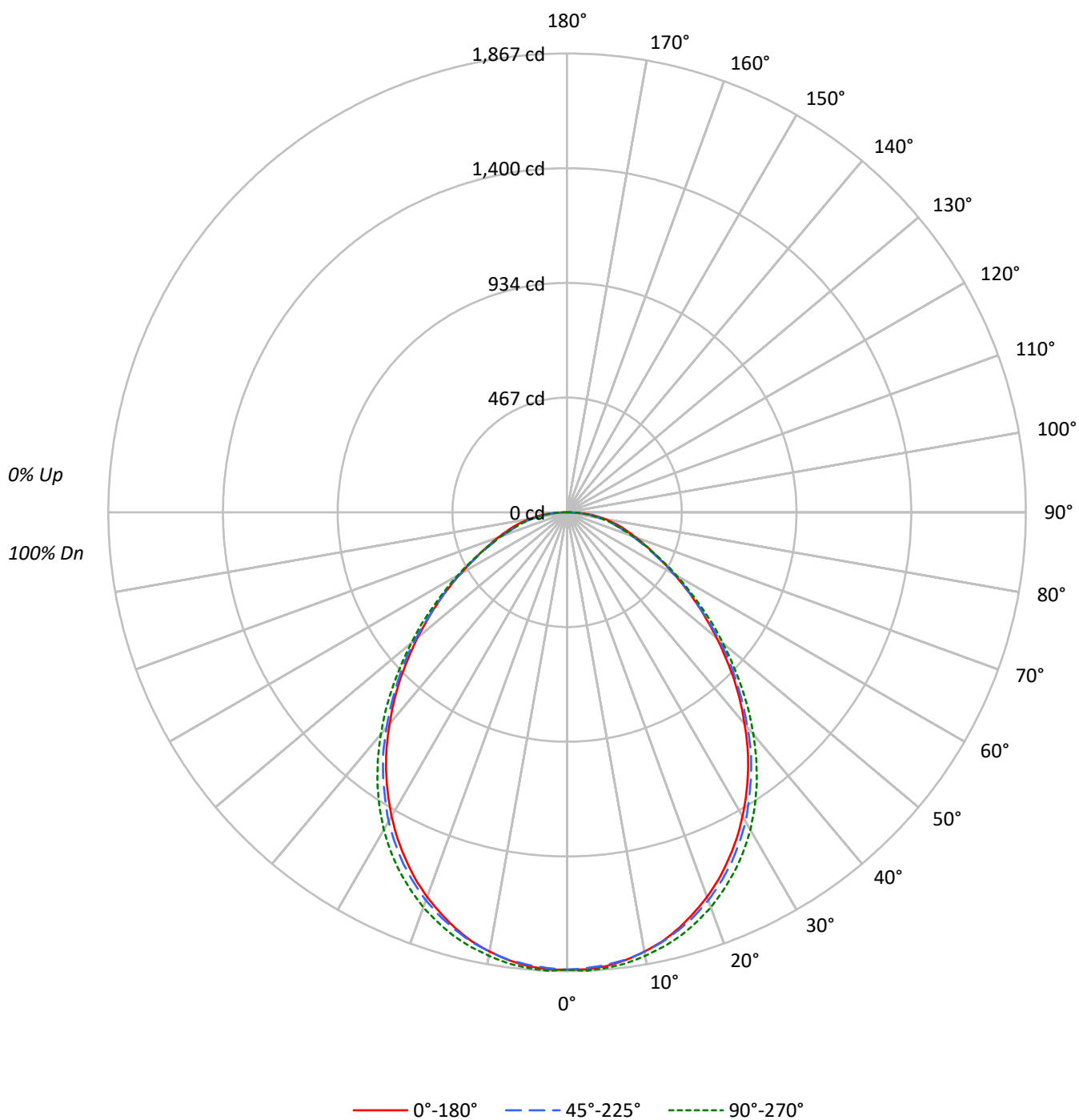
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54		
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48		
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42		
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38		
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34		
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31		
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5960	5960	5960
5°	5957	5941	5983
10°	5901	5904	5959
15°	5811	5831	5915
20°	5675	5725	5829
25°	5498	5575	5696
30°	5281	5372	5514
35°	5022	5103	5261
40°	4696	4774	4930
45°	4347	4414	4544
50°	3959	4023	4126
55°	3575	3586	3691
60°	3206	3219	3295
65°	2921	2862	2930
70°	2781	2626	2671
75°	2799	2532	2543
80°	2903	2558	2540
85°	3178	2712	2565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	4.1
10°-20°	496.6	11.7
20°-30°	726.9	17.1
30°-40°	817.3	19.3
40°-50°	753.7	17.8
50°-60°	580.9	13.7
60°-70°	383.3	9.0
70°-80°	223.1	5.3
80°-90°	81.3	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°	1399.4	33.0
0°-40°	2216.6	52.3
0°-60°	3551.2	83.8
0°-90°	4238.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4238.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1853	1849	1848	1857	1861	176
15°	1753	1753	1759	1774	1784	493
25°	1556	1564	1578	1599	1612	716
35°	1285	1290	1305	1332	1346	801
45°	960	961	975	994	1003	739
55°	640	639	642	653	661	574
65°	386	384	378	381	387	387
75°	226	216	205	201	206	238
85°	86	86	74	68	70	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.0	1861.0	1861.0	1861.0	1861.0
2.5°	1861.0	1857.0	1856.0	1862.8	1866.8
5°	1853.0	1849.1	1848.1	1857.0	1861.0
7.5°	1837.3	1834.4	1835.3	1845.2	1850.1
10°	1814.7	1813.7	1815.6	1826.5	1832.4
12.5°	1788.1	1787.2	1791.0	1802.9	1810.7
15°	1752.7	1752.7	1758.6	1774.4	1784.2
17.5°	1710.5	1713.4	1722.2	1738.0	1748.8
20°	1665.2	1668.1	1679.9	1697.6	1710.5
22.5°	1615.0	1619.0	1630.7	1652.4	1663.2
25°	1556.0	1563.9	1577.7	1599.3	1612.1
27.5°	1495.0	1503.9	1516.7	1543.2	1555.1
30°	1428.1	1434.0	1452.7	1477.3	1491.1
32.5°	1357.3	1363.2	1378.9	1408.5	1420.3
35°	1284.6	1290.4	1305.2	1331.7	1345.6
37.5°	1205.9	1210.8	1228.5	1249.2	1263.9
40°	1123.2	1130.1	1141.9	1166.5	1179.3
42.5°	1042.6	1045.5	1058.3	1082.9	1092.7
45°	959.9	961.0	974.7	994.4	1003.3
47.5°	874.4	876.3	893.1	904.9	913.8
50°	794.7	795.7	807.5	818.3	828.2
52.5°	715.1	715.1	720.9	732.7	745.5
55°	640.3	639.3	642.2	653.1	661.0
57.5°	569.5	568.5	572.4	579.3	585.2
60°	500.6	498.6	502.6	506.5	514.4
62.5°	439.6	441.6	436.7	442.6	448.5
65°	385.5	383.6	377.7	380.6	386.6
67.5°	339.4	336.3	326.5	328.5	335.4
70°	297.0	291.1	280.4	280.4	285.3
72.5°	258.7	252.8	239.0	240.0	241.9
75°	226.2	216.4	204.6	200.6	205.5
77.5°	190.8	182.9	172.1	169.2	171.1
80°	157.4	151.4	138.7	134.8	137.7
82.5°	124.9	120.0	105.3	102.3	103.3
85°	86.5	85.6	73.8	67.9	69.8
87.5°	46.3	47.2	38.4	34.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)