

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: P234122

Luminaire Tested: **22GR-LD5-50-A125-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A125-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A125 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4169.3 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

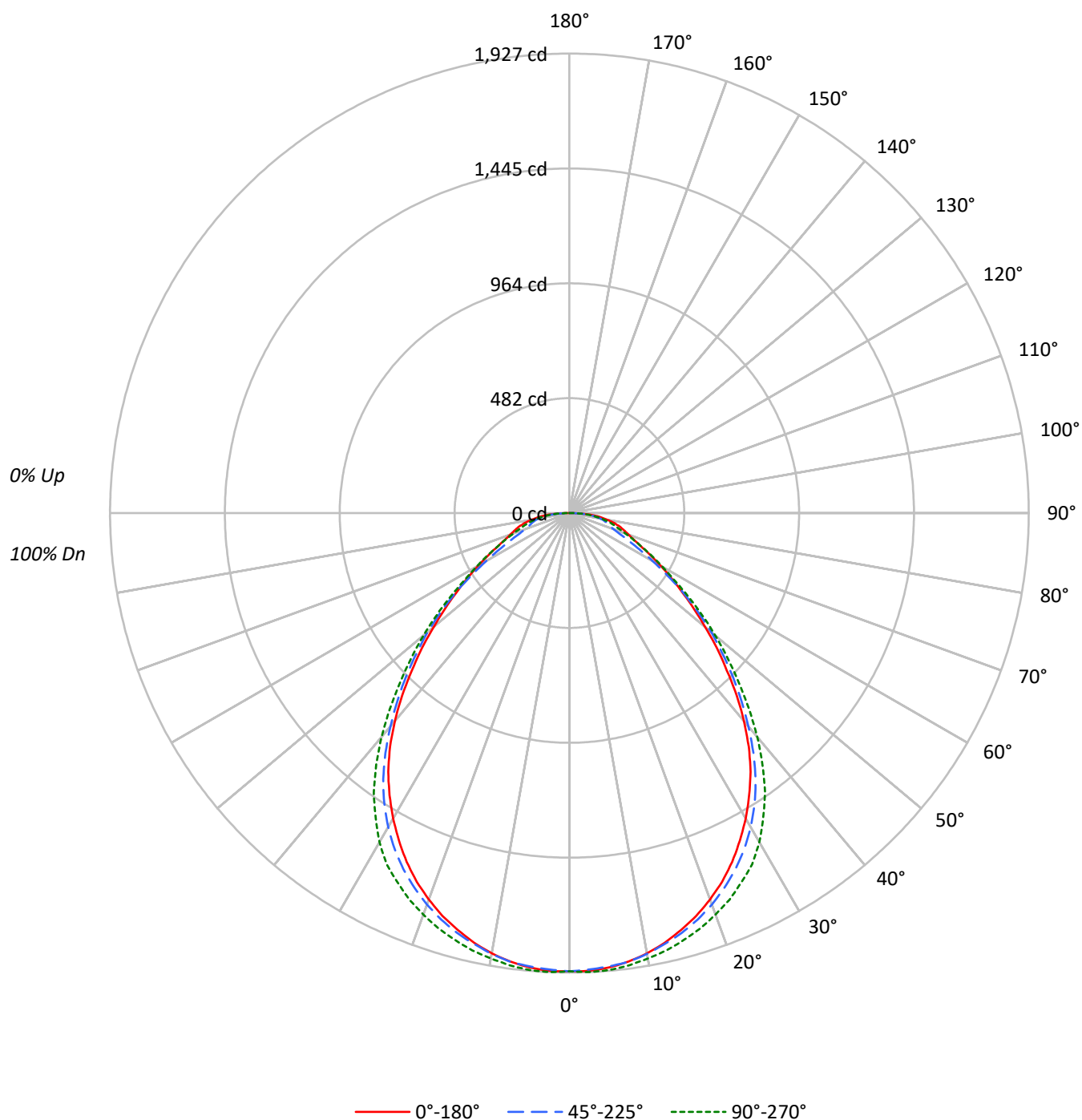
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	102	98	107	103	100	96		99	96	93		95	93	91		92	90	88
2	101	94	87	82	98	92	86	81		88	83	79		85	81	78		82	79	76
3	93	83	76	70	91	82	75	69		79	73	68		76	71	67		74	70	66
4	86	75	67	61	84	74	66	60		71	65	59		69	63	59		67	62	58
5	80	68	59	53	78	67	59	53		65	58	52		63	57	52		61	56	51
6	74	61	53	47	72	61	53	47		59	52	47		57	51	46		56	50	46
7	69	56	48	42	67	55	48	42		54	47	42		52	46	41		51	46	41
8	64	52	44	38	63	51	43	38		50	43	38		48	42	38		47	42	37
9	60	48	40	35	59	47	40	34		46	39	34		45	39	34		44	38	34
10	57	44	37	32	55	44	36	32		43	36	31		42	36	31		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6155	6155	6155
5°	6150	6134	6184
10°	6098	6104	6167
15°	6001	6043	6146
20°	5877	5953	6105
25°	5706	5822	6035
30°	5468	5622	5892
35°	5180	5324	5594
40°	4763	4881	5125
45°	4231	4385	4543
50°	3695	3865	3981
55°	3213	3257	3376
60°	2827	2590	2883
65°	2512	2070	2527
70°	2466	1839	2331
75°	2695	2021	2381
80°	2958	2401	2545
85°	3535	2785	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	4.4
10°-20°	515.1	12.4
20°-30°	760.4	18.2
30°-40°	850.9	20.4
40°-50°	747.2	17.9
50°-60°	528.7	12.7
60°-70°	307.8	7.4
70°-80°	191.8	4.6
80°-90°	85.8	2.1
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°	1457.1	34.9
0°-40°	2308.0	55.4
0°-60°	3583.9	86.0
0°-90°	4169.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4169.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1913	1908	1908	1918	1924	181
15°	1810	1814	1823	1842	1854	510
25°	1615	1622	1648	1687	1708	742
35°	1325	1331	1362	1403	1431	824
45°	934	945	968	992	1003	723
55°	575	587	583	594	605	520
65°	332	305	273	298	334	336
75°	218	188	163	167	192	227
85°	96	100	76	74	78	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1921.8	1921.8	1921.8	1921.8	1921.8
2.5°	1921.8	1917.9	1916.0	1922.8	1926.7
5°	1913.1	1908.2	1908.2	1917.9	1923.7
7.5°	1897.5	1892.7	1898.5	1907.2	1913.1
10°	1875.2	1873.2	1877.1	1888.8	1896.5
12.5°	1846.0	1847.0	1850.9	1869.3	1879.0
15°	1810.0	1813.9	1822.7	1842.1	1853.8
17.5°	1771.1	1774.0	1787.6	1810.0	1826.6
20°	1724.5	1730.3	1746.8	1775.1	1791.5
22.5°	1673.0	1679.8	1700.2	1734.2	1754.7
25°	1614.7	1621.5	1647.7	1686.6	1708.0
27.5°	1548.5	1559.2	1588.4	1631.1	1660.3
30°	1478.6	1487.3	1520.3	1568.9	1593.2
32.5°	1403.7	1414.4	1445.5	1492.2	1513.5
35°	1325.0	1330.8	1361.9	1402.8	1430.9
37.5°	1235.6	1238.4	1267.6	1305.5	1330.8
40°	1139.3	1141.2	1167.5	1203.4	1225.8
42.5°	1039.1	1040.1	1068.4	1095.6	1114.9
45°	934.2	944.9	968.2	991.5	1003.2
47.5°	839.9	847.6	869.0	889.4	900.2
50°	741.7	761.2	775.7	786.4	799.1
52.5°	657.1	673.6	677.5	690.2	700.9
55°	575.4	587.2	583.3	594.0	604.6
57.5°	506.4	500.6	488.0	506.4	520.0
60°	441.3	425.8	404.4	429.7	450.1
62.5°	383.0	357.8	331.5	356.7	390.7
65°	331.5	305.2	273.2	297.5	333.5
67.5°	292.6	265.4	227.5	251.8	287.7
70°	263.4	235.3	196.4	216.8	248.9
72.5°	240.1	210.0	176.0	189.5	216.8
75°	217.8	187.6	163.3	167.2	192.4
77.5°	191.5	169.2	149.7	147.7	167.2
80°	160.4	153.6	130.2	127.3	138.0
82.5°	132.2	129.3	106.9	104.0	107.9
85°	96.2	100.1	75.8	73.9	77.8
87.5°	50.6	55.4	39.9	41.8	42.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)