

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: P234142

Luminaire Tested: **22GR-LD5-50-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234142
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A19/156-UNV-L935-CD1-U
Description: METALUX 2X2 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4125.9 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

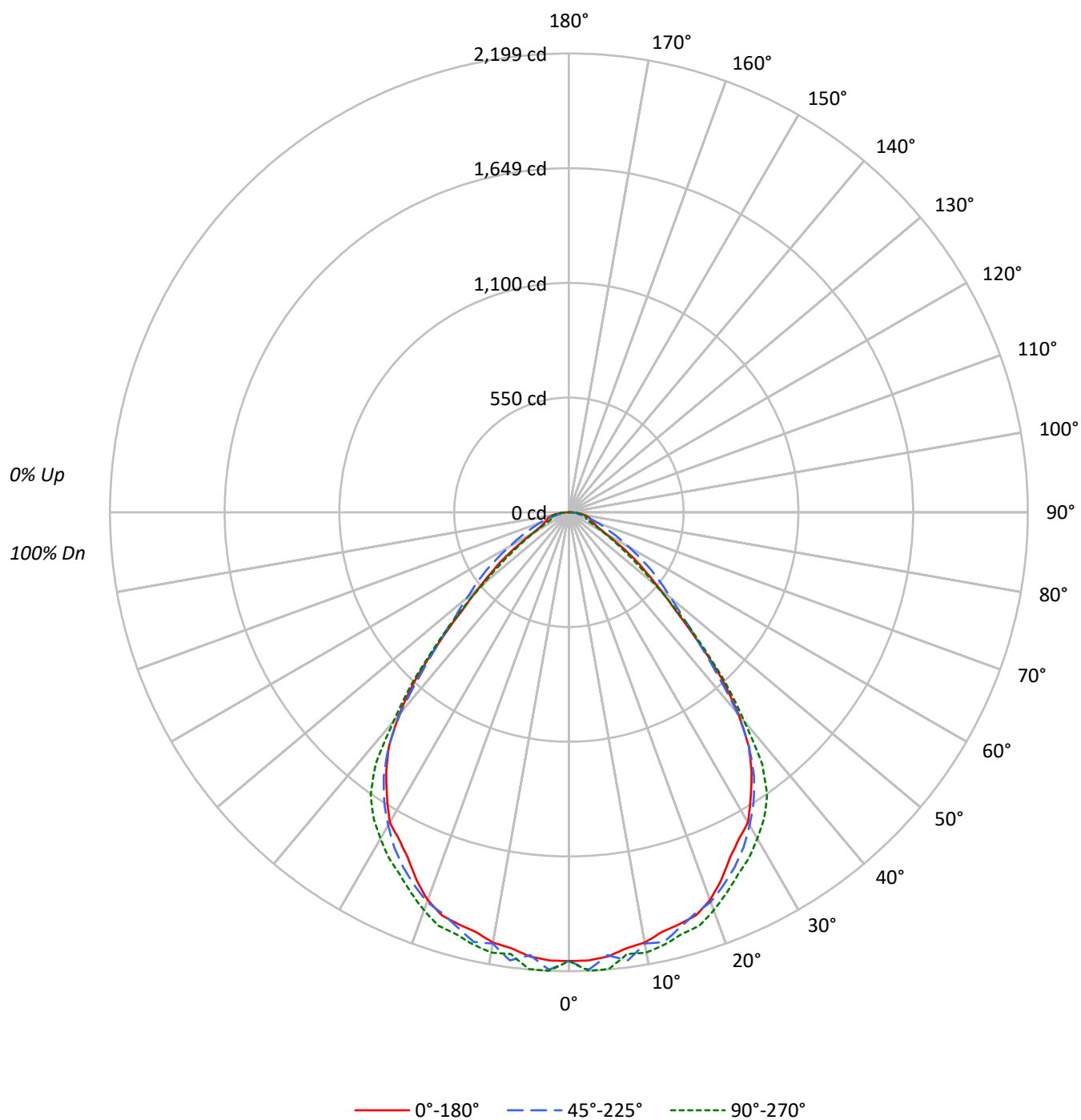
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88		
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60		
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54		
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6886	6886	6886
5°	6869	6847	7063
10°	6806	6825	6967
15°	6775	6827	6936
20°	6739	6772	6918
25°	6451	6633	6770
30°	6345	6403	6675
35°	5967	6043	6472
40°	5287	5251	5458
45°	3949	3958	4068
50°	2780	3163	2693
55°	2052	2671	1840
60°	1283	2110	1202
65°	1046	1672	840
70°	1037	1393	829
75°	1287	1022	1070
80°	1435	808	1309
85°	1426	1499	1466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	5.0
10°-20°	583.0	14.1
20°-30°	863.5	20.9
30°-40°	967.3	23.4
40°-50°	710.7	17.2
50°-60°	397.3	9.6
60°-70°	221.4	5.4
70°-80°	130.1	3.2
80°-90°	47.8	1.2
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°	1651.3	40.0
0°-40°	2618.6	63.5
0°-60°	3726.6	90.3
0°-90°	4125.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4125.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2137	2176	2130	2174	2197	202
15°	2043	2056	2059	2090	2092	577
25°	1826	1840	1877	1903	1916	846
35°	1526	1527	1546	1616	1656	946
45°	872	943	874	936	898	681
55°	368	447	478	477	330	328
65°	138	245	221	283	111	143
75°	104	147	83	166	86	104
85°	39	57	41	52	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2149.3	2168.8	2194.0	2197.0	2199.0
5°	2136.7	2176.5	2129.9	2173.6	2197.0
7.5°	2107.5	2131.8	2165.9	2122.1	2134.8
10°	2093.0	2098.8	2098.8	2153.2	2142.5
12.5°	2059.9	2098.8	2108.5	2097.8	2121.2
15°	2043.4	2056.0	2059.0	2090.1	2092.0
17.5°	2024.9	2022.0	2015.2	2037.5	2077.4
20°	1977.3	1966.6	1987.0	2014.2	2029.8
22.5°	1907.3	1910.2	1934.5	1956.9	1974.4
25°	1825.6	1840.2	1877.1	1903.4	1916.0
27.5°	1764.3	1785.8	1811.0	1842.1	1867.4
30°	1715.8	1713.9	1731.4	1776.1	1805.2
32.5°	1621.5	1628.3	1646.8	1700.3	1741.1
35°	1526.2	1527.2	1545.6	1615.7	1655.5
37.5°	1416.4	1408.6	1419.2	1495.1	1521.3
40°	1264.7	1266.7	1256.0	1309.4	1305.5
42.5°	1087.8	1103.4	1048.0	1117.9	1113.1
45°	872.0	942.9	873.9	936.1	898.2
47.5°	688.2	793.2	735.8	781.6	710.6
50°	558.0	665.9	634.8	655.2	540.5
52.5°	457.9	545.4	555.0	559.9	421.9
55°	367.5	447.2	478.3	477.3	329.5
57.5°	271.2	363.5	399.5	414.1	249.8
60°	200.3	302.3	329.5	361.6	187.6
62.5°	161.3	265.4	272.2	316.9	142.9
65°	138.0	245.0	220.7	282.9	110.8
67.5°	122.5	228.5	179.9	252.8	94.3
70°	110.8	203.2	148.8	226.5	88.5
72.5°	107.9	173.1	114.8	202.2	87.5
75°	104.0	146.8	82.6	166.3	86.5
77.5°	89.4	125.4	59.3	128.4	80.7
80°	77.8	100.1	43.8	96.2	71.0
82.5°	60.3	75.8	38.8	72.9	57.4
85°	38.8	57.4	40.8	52.5	39.9
87.5°	18.4	32.0	29.2	28.2	20.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)