

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: P234143

Luminaire Tested: **22GR-LD5-50-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234143
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-L940-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: 4174.4 lumens
Efficiency: N/A
Efficacy: 103.3 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

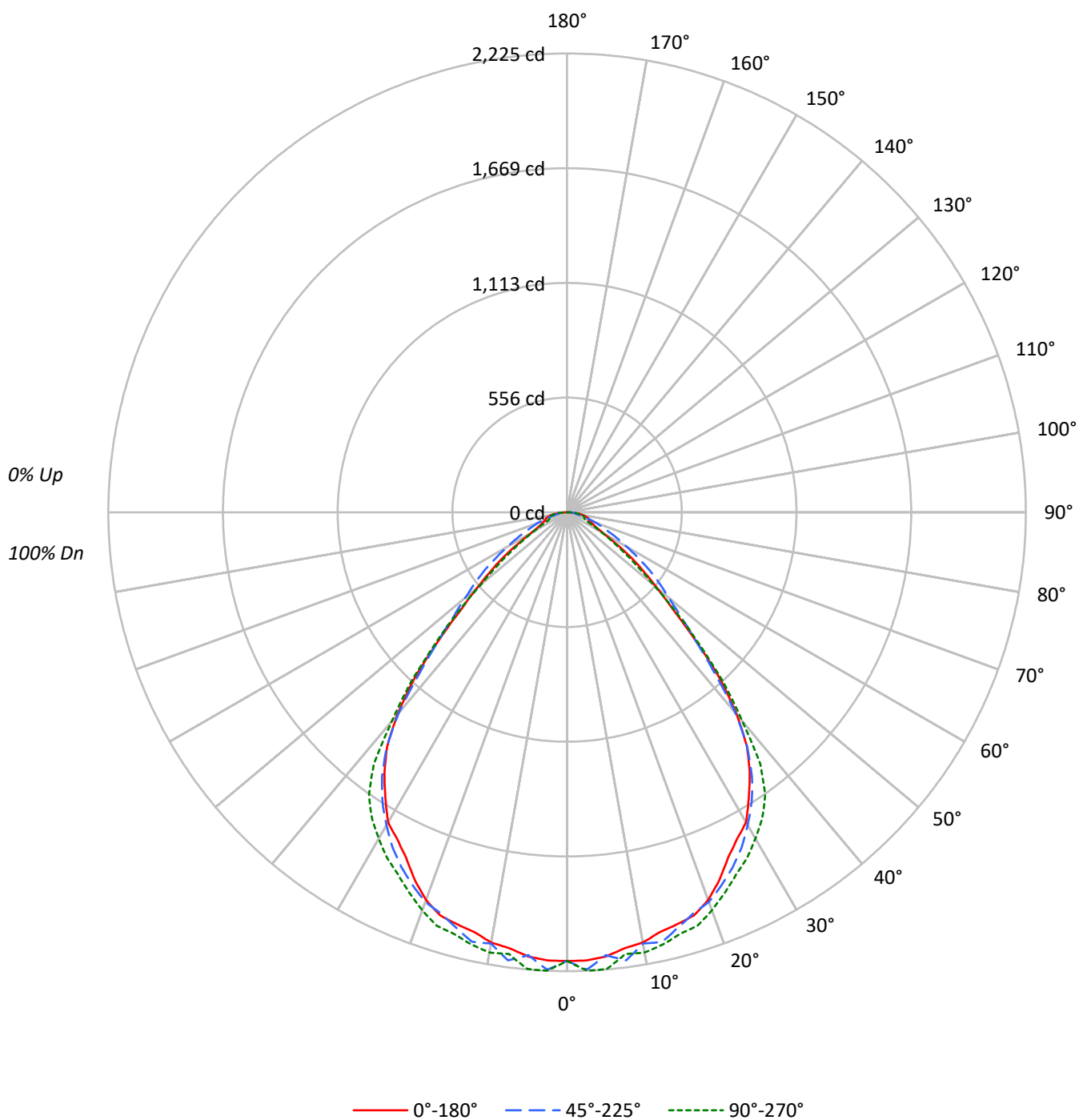
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		77
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6967	6967	6967
5°	6950	6928	7146
10°	6886	6905	7049
15°	6854	6907	7018
20°	6818	6851	6999
25°	6527	6711	6850
30°	6420	6478	6754
35°	6037	6114	6548
40°	5349	5312	5522
45°	3996	4005	4116
50°	2813	3200	2725
55°	2076	2702	1861
60°	1298	2135	1216
65°	1059	1692	849
70°	1050	1409	838
75°	1303	1034	1083
80°	1451	817	1324
85°	1444	1518	1481



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	5.0
10°-20°	589.9	14.1
20°-30°	873.7	20.9
30°-40°	978.7	23.4
40°-50°	719.1	17.2
50°-60°	401.9	9.6
60°-70°	224.0	5.4
70°-80°	131.6	3.2
80°-90°	48.4	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°	1670.7	40.0
0°-40°	2649.4	63.5
0°-60°	3770.4	90.3
0°-90°	4174.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4174.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2162	2202	2155	2199	2223	205
15°	2067	2080	2083	2115	2117	584
25°	1847	1862	1899	1926	1938	856
35°	1544	1545	1564	1635	1675	957
45°	882	954	884	947	909	689
55°	372	452	484	483	333	332
65°	140	248	223	286	112	144
75°	105	148	84	168	88	106
85°	39	58	41	53	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2175.6	2175.6	2175.6	2175.6	2175.6
2.5°	2174.6	2194.3	2219.8	2222.8	2224.8
5°	2161.9	2202.1	2155.0	2199.2	2222.8
7.5°	2132.3	2156.9	2191.4	2147.1	2159.9
10°	2117.6	2123.5	2123.5	2178.6	2167.7
12.5°	2084.1	2123.5	2133.3	2122.5	2146.1
15°	2067.4	2080.2	2083.2	2114.7	2116.6
17.5°	2048.7	2045.8	2038.9	2061.5	2101.8
20°	2000.5	1989.7	2010.3	2037.9	2053.7
22.5°	1929.8	1932.7	1957.3	1979.9	1997.6
25°	1847.1	1861.8	1899.2	1925.8	1938.5
27.5°	1785.1	1806.8	1832.3	1863.8	1889.4
30°	1736.0	1734.0	1751.7	1797.0	1826.5
32.5°	1640.5	1647.4	1666.2	1720.3	1761.5
35°	1544.1	1545.2	1563.8	1634.7	1674.9
37.5°	1433.0	1425.2	1435.9	1512.7	1539.2
40°	1279.6	1281.6	1270.7	1324.8	1320.9
42.5°	1100.6	1116.4	1060.3	1131.1	1126.2
45°	882.3	954.0	884.2	947.1	908.8
47.5°	696.3	802.6	744.5	790.8	719.0
50°	564.6	673.7	642.2	662.9	546.9
52.5°	463.3	551.8	561.6	566.5	426.8
55°	371.8	452.4	483.9	482.9	333.4
57.5°	274.4	367.8	404.2	419.0	252.8
60°	202.6	305.9	333.4	365.8	189.8
62.5°	163.2	268.5	275.4	320.6	144.6
65°	139.7	247.9	223.3	286.2	112.1
67.5°	123.9	231.2	182.0	255.8	95.4
70°	112.1	205.5	150.5	229.2	89.5
72.5°	109.1	175.1	116.1	204.6	88.5
75°	105.3	148.5	83.6	168.2	87.5
77.5°	90.5	126.8	60.0	129.9	81.6
80°	78.7	101.3	44.3	97.4	71.8
82.5°	61.0	76.7	39.3	73.8	58.0
85°	39.3	58.0	41.3	53.1	40.3
87.5°	18.7	32.4	29.5	28.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)