

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: P234144

Luminaire Tested: **22GR-LD5-50-A19/156-UNV-L950-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234144
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-L950-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: 4858.8 lumens
Efficiency: N/A
Efficacy: 120.3 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

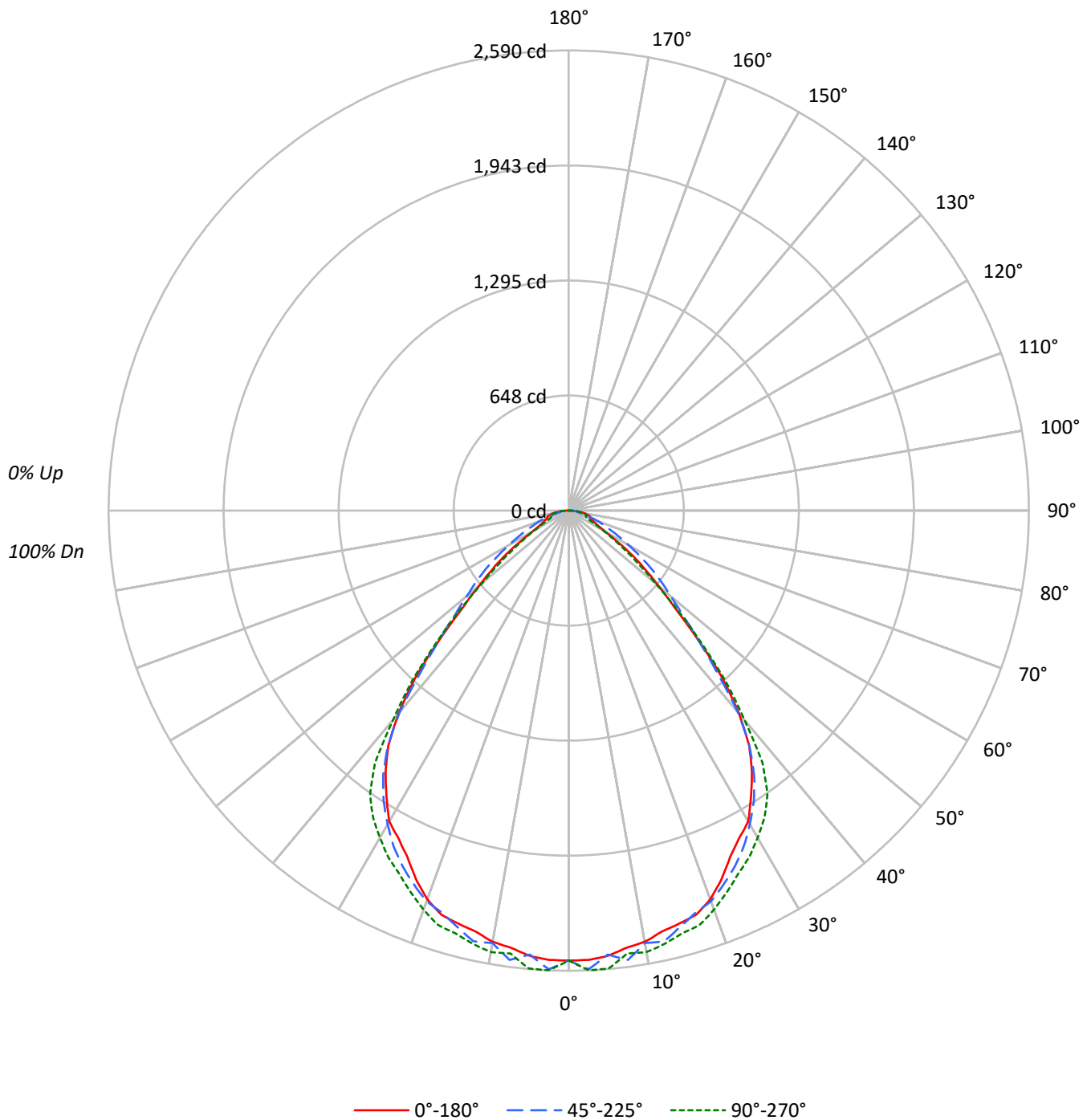
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8110	8110	8110
5°	8089	8063	8317
10°	8015	8038	8205
15°	7978	8039	8168
20°	7936	7975	8147
25°	7597	7811	7973
30°	7472	7540	7861
35°	7027	7116	7622
40°	6227	6183	6427
45°	4650	4661	4791
50°	3274	3725	3171
55°	2416	3145	2167
60°	1511	2486	1415
65°	1231	1969	989
70°	1222	1640	976
75°	1516	1204	1261
80°	1687	950	1540
85°	1683	1764	1727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	5.0
10°-20°	686.6	14.1
20°-30°	1016.9	20.9
30°-40°	1139.1	23.4
40°-50°	837.0	17.2
50°-60°	467.9	9.6
60°-70°	260.8	5.4
70°-80°	153.2	3.2
80°-90°	56.3	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°	1944.6	40.0
0°-40°	3083.7	63.5
0°-60°	4388.6	90.3
0°-90°	4858.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4858.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2532	2532	2532	2532	2532	
5°	2516	2563	2508	2560	2587	238
15°	2406	2421	2425	2461	2464	680
25°	2150	2167	2211	2242	2256	996
35°	1797	1798	1820	1903	1950	1113
45°	1027	1110	1029	1102	1058	802
55°	433	527	563	562	388	386
65°	162	288	260	333	130	168
75°	122	173	97	196	102	123
85°	46	68	48	62	47	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2532.3	2532.3	2532.3	2532.3	2532.3
2.5°	2531.2	2554.0	2583.9	2587.2	2589.5
5°	2516.2	2563.2	2508.2	2559.7	2587.2
7.5°	2481.9	2510.5	2550.6	2499.1	2514.0
10°	2464.7	2471.7	2471.7	2535.7	2523.2
12.5°	2425.9	2471.7	2483.1	2470.5	2498.0
15°	2406.4	2421.2	2424.7	2461.3	2463.6
17.5°	2384.7	2381.2	2373.2	2399.5	2446.4
20°	2328.5	2316.0	2340.0	2372.0	2390.4
22.5°	2246.1	2249.5	2278.2	2304.5	2325.0
25°	2150.0	2167.1	2210.6	2241.5	2256.4
27.5°	2077.8	2103.0	2132.8	2169.4	2199.2
30°	2020.6	2018.3	2038.9	2091.5	2125.9
32.5°	1909.5	1917.6	1939.3	2002.3	2050.3
35°	1797.3	1798.5	1820.3	1902.6	1949.6
37.5°	1667.9	1658.8	1671.4	1760.7	1791.6
40°	1489.4	1491.7	1479.1	1542.1	1537.4
42.5°	1281.0	1299.4	1234.1	1316.5	1310.8
45°	1026.8	1110.5	1029.2	1102.5	1057.8
47.5°	810.5	934.1	866.6	920.5	836.8
50°	657.1	784.1	747.6	771.6	636.5
52.5°	539.2	642.3	653.7	659.4	496.9
55°	432.7	526.6	563.2	562.1	388.1
57.5°	319.4	428.2	470.5	487.7	294.2
60°	235.9	356.0	388.1	425.9	220.9
62.5°	190.0	312.5	320.5	373.2	168.3
65°	162.5	288.5	259.9	333.2	130.5
67.5°	144.2	269.0	211.8	297.7	111.0
70°	130.5	239.2	175.2	266.7	104.2
72.5°	127.0	203.7	135.0	238.1	103.0
75°	122.5	172.9	97.3	195.7	101.9
77.5°	105.3	147.7	69.8	151.2	95.0
80°	91.5	117.9	51.5	113.3	83.5
82.5°	71.0	89.3	45.8	85.9	67.5
85°	45.8	67.5	48.0	61.8	47.0
87.5°	21.7	37.8	34.3	33.2	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)