

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: P234079

Luminaire Tested: **14GR-LD5-50-A19/156-UNV-L940-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/12/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-A19/156-UNV-L940-CD1-U
Description: METALUX 1X4 GRLED TROFFER
WITH A19/156 LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4140.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

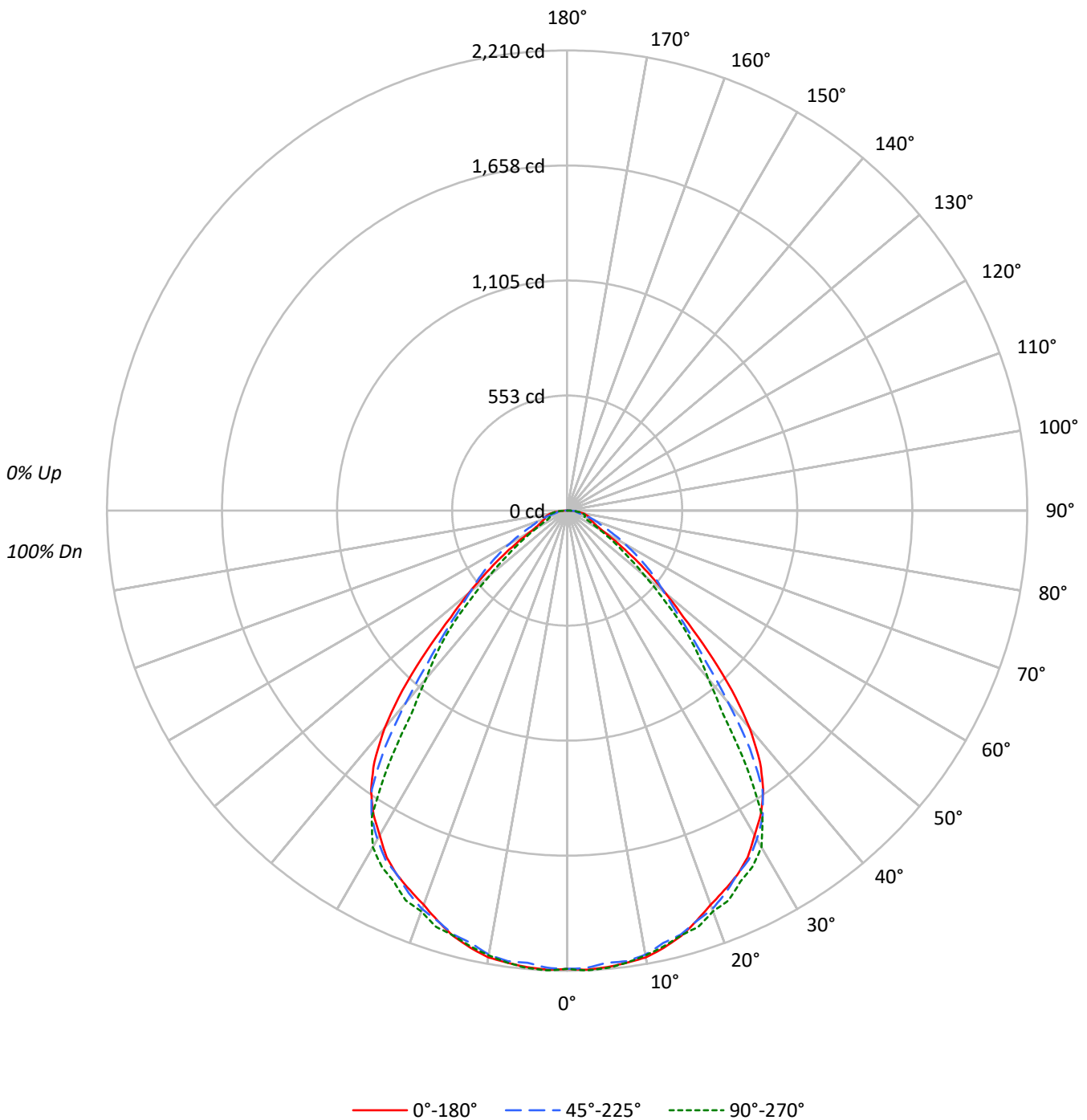
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7418	7418	7418
5°	7443	7373	7459
10°	7455	7409	7422
15°	7379	7353	7369
20°	7225	7303	7344
25°	7181	7177	7315
30°	7006	7091	7264
35°	6756	6728	6183
40°	5998	5294	4635
45°	4552	3960	3748
50°	3229	3170	2543
55°	2210	2706	1748
60°	1367	2159	1169
65°	1126	1662	846
70°	1120	1447	869
75°	1345	1036	1160
80°	1545	957	1453
85°	1465	1686	1651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.9	5.0
10°-20°	596.2	14.4
20°-30°	896.6	21.7
30°-40°	977.4	23.6
40°-50°	684.4	16.5
50°-60°	387.4	9.4
60°-70°	212.0	5.1
70°-80°	128.5	3.1
80°-90°	48.7	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°	1701.7	41.1
0°-40°	2679.1	64.7
0°-60°	3750.9	90.6
0°-90°	4140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2201	2197	2180	2205	2205	209
15°	2115	2110	2108	2138	2112	595
25°	1931	1935	1930	1975	1967	887
35°	1642	1635	1636	1552	1503	1012
45°	955	997	831	821	787	742
55°	376	450	461	457	298	344
65°	141	232	208	264	106	145
75°	103	149	80	156	89	107
85°	38	62	44	53	43	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.5	2201.5	2201.5	2201.5	2201.5
2.5°	2207.2	2204.4	2197.7	2211.0	2210.0
5°	2200.6	2196.8	2179.8	2205.3	2205.3
7.5°	2191.1	2181.6	2182.6	2196.8	2190.2
10°	2178.8	2162.6	2165.5	2169.3	2169.3
12.5°	2150.3	2135.2	2127.6	2139.9	2143.7
15°	2115.3	2109.6	2107.7	2138.0	2112.4
17.5°	2066.0	2078.3	2066.9	2091.6	2095.4
20°	2014.8	2038.5	2036.7	2053.7	2048.0
22.5°	1973.1	1988.3	1988.3	2009.1	2026.2
25°	1931.4	1935.2	1930.4	1975.0	1967.4
27.5°	1877.4	1874.5	1889.7	1912.5	1927.6
30°	1800.7	1801.6	1822.4	1852.8	1867.0
32.5°	1730.5	1722.0	1747.5	1760.8	1745.6
35°	1642.3	1634.8	1635.7	1552.3	1503.0
37.5°	1522.0	1528.6	1441.4	1288.9	1224.5
40°	1363.7	1377.0	1203.6	1089.9	1053.8
42.5°	1172.3	1176.1	986.6	949.6	925.9
45°	955.3	997.0	831.1	820.7	786.6
47.5°	757.2	834.9	696.6	703.2	621.7
50°	616.0	693.7	604.7	607.5	485.2
52.5°	487.1	563.0	533.5	525.0	381.0
55°	376.2	450.1	460.6	456.8	297.6
57.5°	276.7	356.3	386.7	400.8	229.4
60°	202.8	290.9	320.4	348.7	173.5
62.5°	161.1	252.1	262.5	304.2	134.6
65°	141.2	232.2	208.5	263.5	106.1
67.5°	126.1	220.8	169.7	233.1	92.9
70°	113.7	199.0	146.9	208.5	88.2
72.5°	113.7	174.4	115.6	184.8	89.1
75°	103.3	148.8	79.6	156.3	89.1
77.5°	91.9	127.0	59.7	127.0	83.4
80°	79.6	99.5	49.3	97.6	74.9
82.5°	58.7	74.9	42.7	73.0	60.6
85°	37.9	61.6	43.6	53.1	42.7
87.5°	18.0	31.3	27.5	26.6	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)