

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: P234078

Luminaire Tested: **14GR-LD5-50-A19/156-UNV-L935-CD1-U**

Issue Date: 3/12/2020

Test Information

Test Method: LM-79-08
Report Number: P234078
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-L935-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: 4091.9 lumens
Efficiency: N/A
Efficacy: 90.7 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

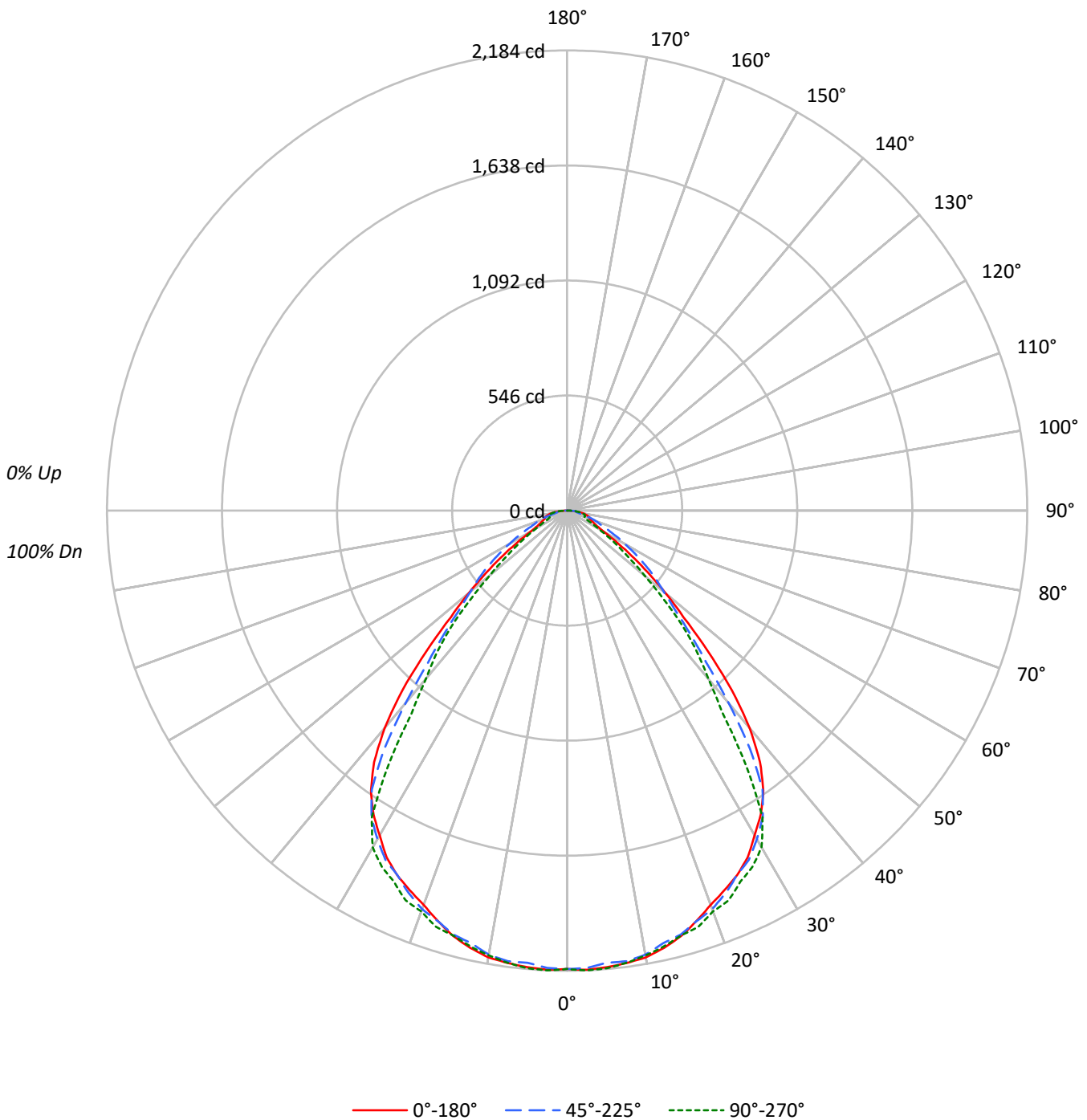
Input Watts (W): 45.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	7332	7332	7332
5°	7357	7287	7373
10°	7368	7323	7336
15°	7293	7267	7284
20°	7141	7218	7258
25°	7097	7094	7229
30°	6925	7008	7180
35°	6677	6650	6111
40°	5929	5233	4582
45°	4499	3914	3705
50°	3192	3133	2514
55°	2185	2675	1728
60°	1351	2134	1155
65°	1113	1642	836
70°	1107	1431	858
75°	1329	1025	1147
80°	1527	945	1436
85°	1450	1666	1632



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.4	5.0
10°-20°	589.3	14.4
20°-30°	886.2	21.7
30°-40°	966.0	23.6
40°-50°	676.4	16.5
50°-60°	382.9	9.4
60°-70°	209.5	5.1
70°-80°	127.0	3.1
80°-90°	48.2	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°	1681.9	41.1
0°-40°	2647.9	64.7
0°-60°	3707.3	90.6
0°-90°	4091.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4091.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2176	2176	2176	2176	2176	
5°	2175	2171	2154	2180	2180	207
15°	2091	2085	2083	2113	2088	588
25°	1909	1913	1908	1952	1944	877
35°	1623	1616	1617	1534	1486	1000
45°	944	985	821	811	777	733
55°	372	445	455	452	294	340
65°	140	230	206	260	105	143
75°	102	147	79	154	88	106
85°	38	61	43	52	42	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2175.9	2175.9	2175.9	2175.9	2175.9
2.5°	2181.5	2178.7	2172.2	2185.3	2184.3
5°	2175.0	2171.2	2154.4	2179.7	2179.7
7.5°	2165.6	2156.3	2157.2	2171.2	2164.7
10°	2153.5	2137.5	2140.3	2144.0	2144.0
12.5°	2125.3	2110.4	2102.8	2115.1	2118.8
15°	2090.7	2085.0	2083.2	2113.2	2087.9
17.5°	2042.0	2054.1	2042.9	2067.3	2071.0
20°	1991.4	2014.8	2013.0	2029.8	2024.2
22.5°	1950.2	1965.2	1965.2	1985.8	2002.6
25°	1908.9	1912.7	1908.0	1952.0	1944.5
27.5°	1855.6	1852.7	1867.7	1890.2	1905.2
30°	1779.7	1780.7	1801.2	1831.2	1845.3
32.5°	1710.4	1702.0	1727.2	1740.4	1725.3
35°	1623.2	1615.8	1616.7	1534.2	1485.5
37.5°	1504.3	1510.9	1424.7	1273.9	1210.2
40°	1347.8	1361.0	1189.6	1077.2	1041.6
42.5°	1158.6	1162.5	975.1	938.6	915.1
45°	944.2	985.4	821.4	811.2	777.4
47.5°	748.4	825.2	688.5	695.0	614.5
50°	608.9	685.6	597.6	600.4	479.6
52.5°	481.4	556.4	527.3	518.9	376.6
55°	371.9	444.9	455.3	451.5	294.1
57.5°	273.5	352.2	382.2	396.2	226.7
60°	200.4	287.6	316.6	344.7	171.4
62.5°	159.2	249.1	259.4	300.6	133.0
65°	139.6	229.5	206.0	260.4	104.9
67.5°	124.6	218.3	167.7	230.4	91.8
70°	112.4	196.7	145.2	206.0	87.1
72.5°	112.4	172.4	114.2	182.7	88.1
75°	102.1	147.0	78.7	154.5	88.1
77.5°	90.9	125.5	59.0	125.5	82.4
80°	78.7	98.3	48.7	96.5	74.0
82.5°	58.1	74.0	42.2	72.2	59.9
85°	37.5	60.9	43.1	52.4	42.2
87.5°	17.8	30.9	27.2	26.3	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)