

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: P291517

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3350.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

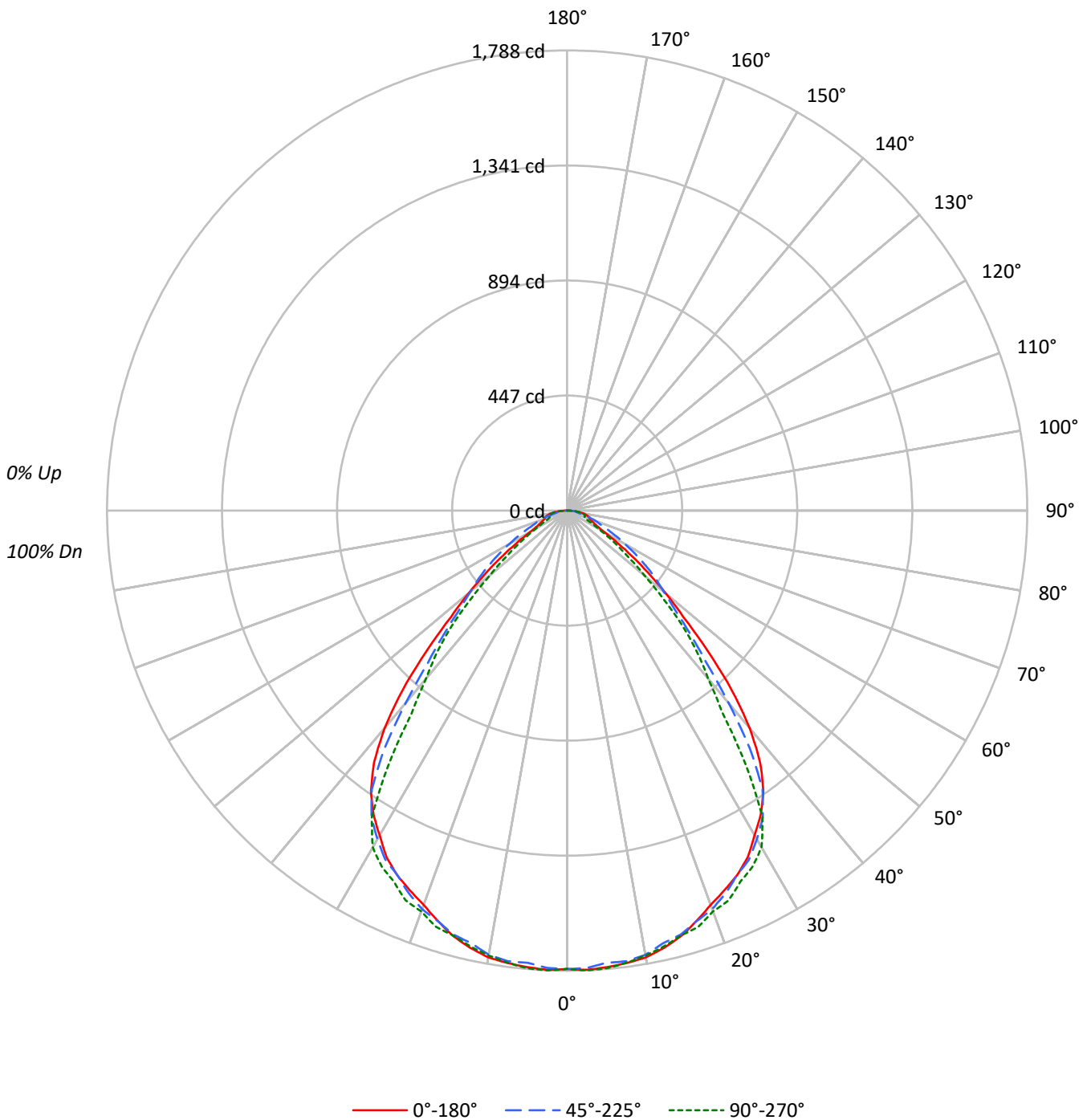
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					88			
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77					77			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68					68			
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61					61			
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54					54			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49					49			
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44					44			
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40					40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37					37			
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4794	4794	4794
5°	4810	4764	4820
10°	4817	4788	4796
15°	4768	4751	4762
20°	4669	4719	4746
25°	4640	4638	4727
30°	4527	4582	4694
35°	4366	4348	3995
40°	3876	3421	2995
45°	2942	2559	2422
50°	2087	2048	1644
55°	1428	1749	1130
60°	883	1395	755
65°	728	1074	547
70°	724	935	561
75°	869	670	750
80°	998	618	939
85°	948	1090	1065



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	5.0
10°-20°	482.4	14.4
20°-30°	725.5	21.7
30°-40°	790.9	23.6
40°-50°	553.8	16.5
50°-60°	313.5	9.4
60°-70°	171.5	5.1
70°-80°	104.0	3.1
80°-90°	39.4	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°	1376.9	41.1
0°-40°	2167.8	64.7
0°-60°	3035.1	90.6
0°-90°	3350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1781	1781	1781	1781	1781	
5°	1781	1778	1764	1784	1784	169
15°	1712	1707	1706	1730	1709	481
25°	1563	1566	1562	1598	1592	718
35°	1329	1323	1324	1256	1216	819
45°	773	807	672	664	636	600
55°	304	364	373	370	241	278
65°	114	188	169	213	86	117
75°	84	120	64	126	72	87
85°	31	50	35	43	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.4	1781.4	1781.4	1781.4	1781.4
2.5°	1786.0	1783.7	1778.3	1789.1	1788.3
5°	1780.6	1777.6	1763.8	1784.5	1784.5
7.5°	1773.0	1765.3	1766.1	1777.6	1772.2
10°	1763.0	1750.0	1752.3	1755.3	1755.3
12.5°	1740.0	1727.7	1721.6	1731.6	1734.6
15°	1711.6	1707.0	1705.5	1730.0	1709.3
17.5°	1671.7	1681.7	1672.5	1692.4	1695.5
20°	1630.3	1649.5	1648.0	1661.8	1657.2
22.5°	1596.6	1608.9	1608.9	1625.7	1639.5
25°	1562.8	1565.9	1562.1	1598.1	1592.0
27.5°	1519.1	1516.8	1529.1	1547.5	1559.8
30°	1457.0	1457.8	1474.7	1499.2	1510.7
32.5°	1400.3	1393.4	1414.1	1424.8	1412.5
35°	1329.0	1322.8	1323.6	1256.1	1216.2
37.5°	1231.6	1236.9	1166.4	1042.9	990.8
40°	1103.5	1114.2	973.9	881.9	852.7
42.5°	948.6	951.7	798.3	768.4	749.2
45°	773.0	806.7	672.5	664.1	636.5
47.5°	612.7	675.6	563.6	569.0	503.1
50°	498.5	561.3	489.3	491.6	392.6
52.5°	394.2	455.5	431.7	424.8	308.3
55°	304.4	364.3	372.7	369.6	240.8
57.5°	223.9	288.3	312.9	324.4	185.6
60°	164.1	235.4	259.2	282.2	140.3
62.5°	130.4	204.0	212.4	246.2	108.9
65°	114.3	187.9	168.7	213.2	85.9
67.5°	102.0	178.7	137.3	188.6	75.2
70°	92.0	161.0	118.9	168.7	71.3
72.5°	92.0	141.1	93.6	149.5	72.1
75°	83.6	120.4	64.4	126.5	72.1
77.5°	74.4	102.8	48.3	102.8	67.5
80°	64.4	80.5	39.9	79.0	60.6
82.5°	47.5	60.6	34.5	59.0	49.1
85°	30.7	49.8	35.3	42.9	34.5
87.5°	14.6	25.3	22.2	21.5	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)