

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: P291358

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291358
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-LD5-32-A19/156-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

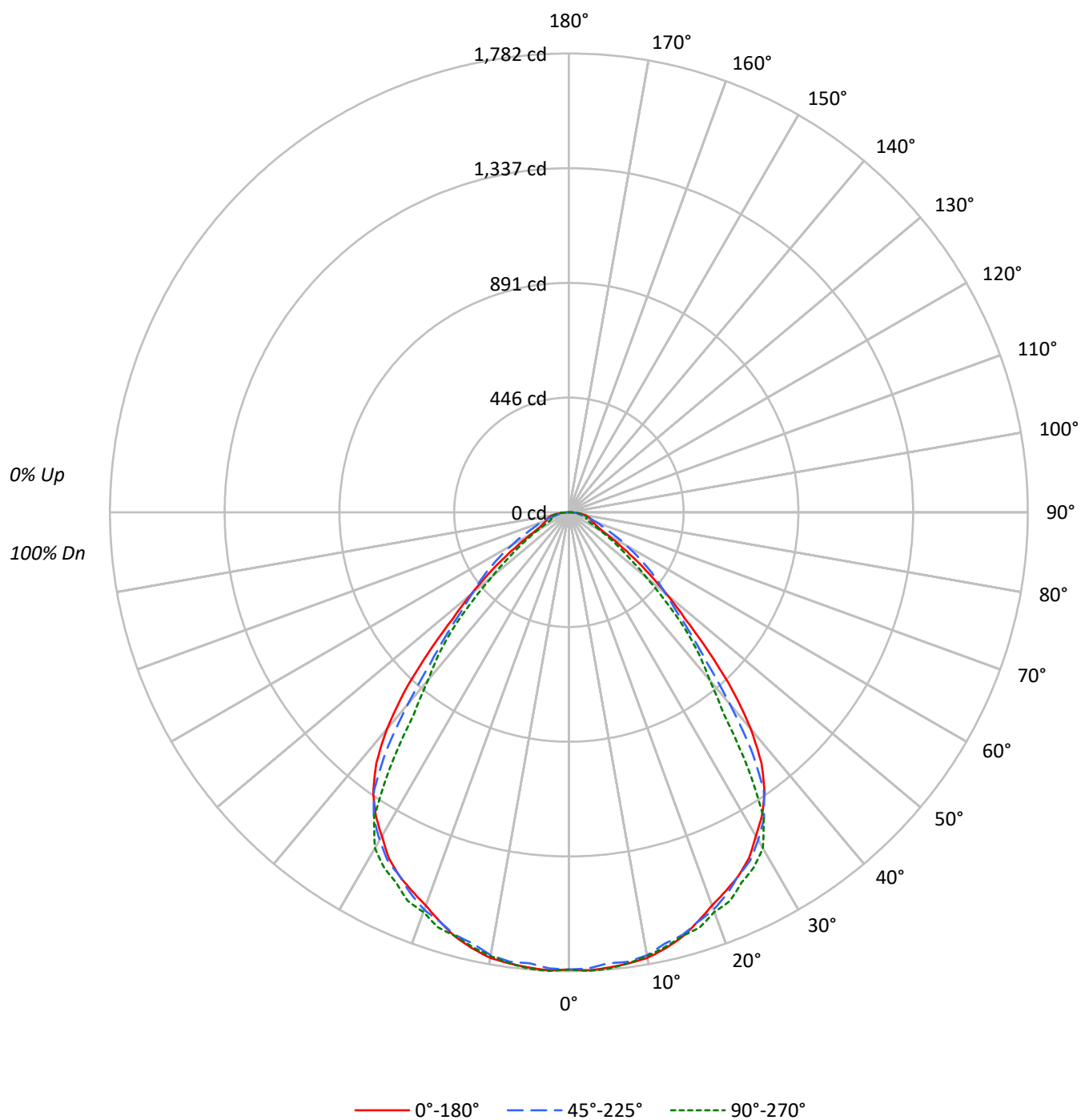
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	4778	4778	4778
5°	4794	4749	4804
10°	4802	4772	4781
15°	4753	4736	4746
20°	4653	4704	4730
25°	4625	4623	4711
30°	4512	4567	4679
35°	4351	4334	3982
40°	3864	3410	2986
45°	2932	2551	2414
50°	2080	2041	1638
55°	1423	1743	1126
60°	880	1390	753
65°	725	1071	545
70°	721	932	559
75°	866	667	747
80°	995	615	936
85°	945	1087	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	5.0
10°-20°	480.8	14.4
20°-30°	723.1	21.7
30°-40°	788.3	23.6
40°-50°	552.0	16.5
50°-60°	312.4	9.4
60°-70°	171.0	5.1
70°-80°	103.6	3.1
80°-90°	39.3	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°	1372.4	41.1
0°-40°	2160.7	64.7
0°-60°	3025.1	90.6
0°-90°	3339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1775	1772	1758	1779	1779	169
15°	1706	1701	1700	1724	1704	480
25°	1558	1561	1557	1593	1587	715
35°	1325	1318	1319	1252	1212	816
45°	770	804	670	662	634	598
55°	303	363	372	368	240	277
65°	114	187	168	212	86	117
75°	83	120	64	126	72	86
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°	1775.6	1775.6	1775.6	1775.6	1775.6
2.5°	1780.1	1777.8	1772.5	1783.2	1782.4
5°	1774.8	1771.7	1758.0	1778.6	1778.6
7.5°	1767.1	1759.5	1760.3	1771.7	1766.4
10°	1757.2	1744.2	1746.5	1749.6	1749.6
12.5°	1734.3	1722.0	1715.9	1725.9	1728.9
15°	1706.0	1701.4	1699.9	1724.3	1703.7
17.5°	1666.3	1676.2	1667.0	1686.9	1689.9
20°	1625.0	1644.1	1642.6	1656.3	1651.7
22.5°	1591.3	1603.6	1603.6	1620.4	1634.1
25°	1557.7	1560.8	1557.0	1592.9	1586.8
27.5°	1514.1	1511.9	1524.1	1542.4	1554.7
30°	1452.2	1453.0	1469.8	1494.3	1505.7
32.5°	1395.7	1388.8	1409.4	1420.1	1407.9
35°	1324.6	1318.5	1319.2	1252.0	1212.2
37.5°	1227.5	1232.9	1162.6	1039.5	987.5
40°	1099.9	1110.6	970.7	879.0	849.9
42.5°	945.5	948.5	795.7	765.9	746.8
45°	770.4	804.1	670.3	661.9	634.4
47.5°	610.7	673.4	561.8	567.1	501.4
50°	496.8	559.5	487.6	489.9	391.3
52.5°	392.9	454.0	430.3	423.4	307.3
55°	303.4	363.1	371.5	368.4	240.0
57.5°	223.2	287.4	311.8	323.3	185.0
60°	163.6	234.7	258.3	281.3	139.9
62.5°	129.9	203.3	211.7	245.4	108.5
65°	113.9	187.3	168.2	212.5	85.6
67.5°	101.7	178.1	136.8	188.0	74.9
70°	91.7	160.5	118.5	168.2	71.1
72.5°	91.7	140.6	93.2	149.0	71.8
75°	83.3	120.0	64.2	126.1	71.8
77.5°	74.1	102.4	48.2	102.4	67.3
80°	64.2	80.3	39.7	78.7	60.4
82.5°	47.4	60.4	34.4	58.9	48.9
85°	30.6	49.7	35.2	42.8	34.4
87.5°	14.5	25.2	22.2	21.4	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)