

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: P291410

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291410
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-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3315.0 lumens
Efficiency: N/A
Efficacy: 125.5 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

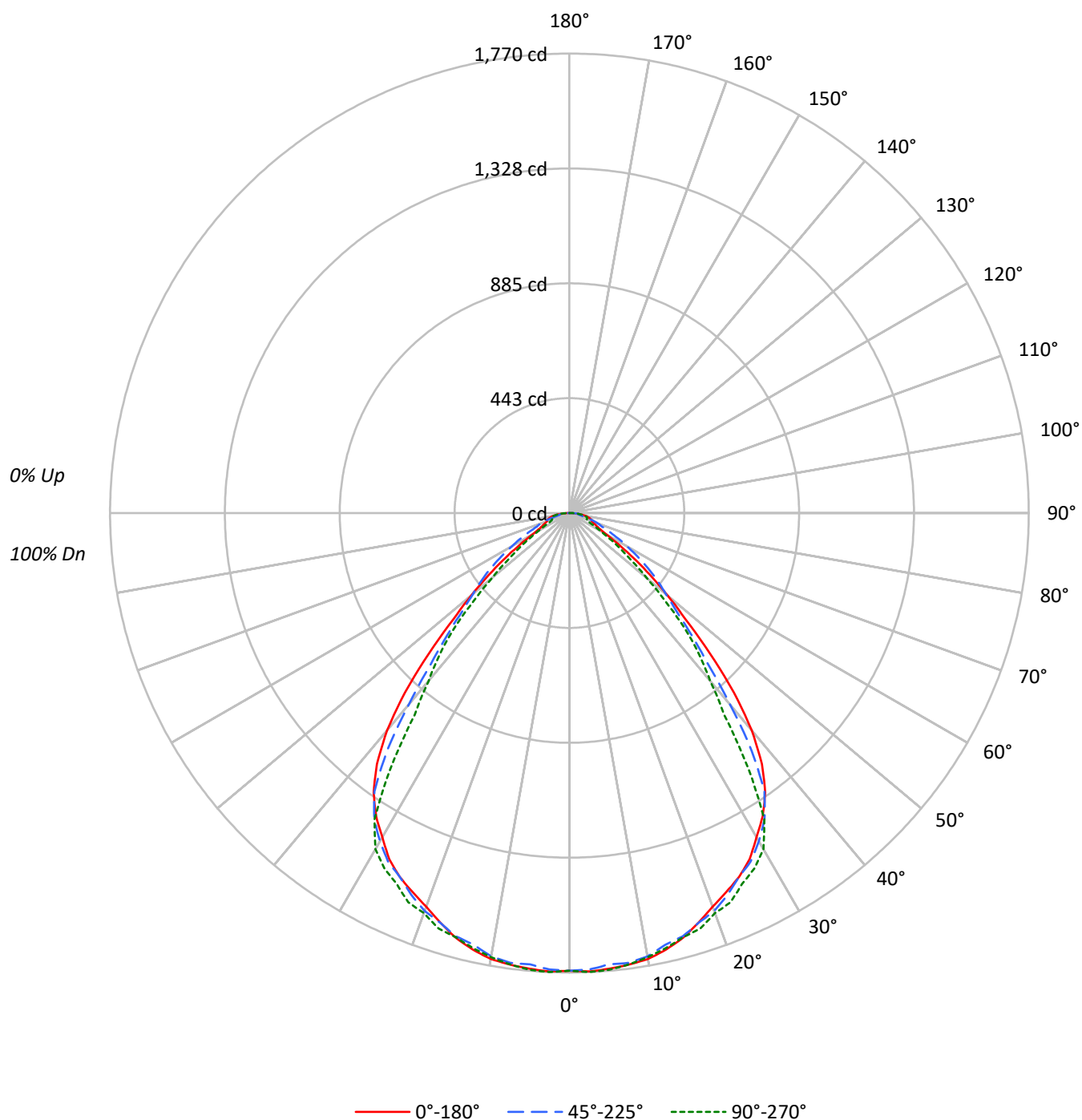
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4744	4744	4744
5°	4760	4715	4770
10°	4767	4738	4746
15°	4718	4702	4712
20°	4620	4670	4696
25°	4592	4590	4678
30°	4480	4534	4645
35°	4320	4303	3954
40°	3836	3385	2964
45°	2911	2533	2397
50°	2065	2027	1626
55°	1414	1730	1118
60°	874	1380	748
65°	720	1063	541
70°	717	925	555
75°	860	662	741
80°	987	612	928
85°	939	1078	1053



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	5.0
10°-20°	477.4	14.4
20°-30°	717.9	21.7
30°-40°	782.6	23.6
40°-50°	548.0	16.5
50°-60°	310.2	9.4
60°-70°	169.7	5.1
70°-80°	102.9	3.1
80°-90°	39.0	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°	1362.5	41.1
0°-40°	2145.2	64.7
0°-60°	3003.4	90.6
0°-90°	3315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1763	1763	1763	1763	1763	
5°	1762	1759	1745	1766	1766	168
15°	1694	1689	1688	1712	1692	476
25°	1546	1550	1546	1581	1575	710
35°	1315	1309	1310	1243	1204	810
45°	765	798	666	657	630	594
55°	301	360	369	366	238	275
65°	113	186	167	211	85	116
75°	83	119	64	125	71	86
85°	30	49	35	42	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.8	1762.8	1762.8	1762.8	1762.8
2.5°	1767.3	1765.1	1759.8	1770.4	1769.6
5°	1762.0	1759.0	1745.3	1765.8	1765.8
7.5°	1754.4	1746.9	1747.6	1759.0	1753.7
10°	1744.6	1731.7	1734.0	1737.0	1737.0
12.5°	1721.8	1709.7	1703.6	1713.5	1716.5
15°	1693.7	1689.2	1687.7	1711.9	1691.5
17.5°	1654.3	1664.1	1655.0	1674.8	1677.8
20°	1613.3	1632.3	1630.7	1644.4	1639.9
22.5°	1579.9	1592.0	1592.0	1608.7	1622.4
25°	1546.5	1549.6	1545.8	1581.4	1575.4
27.5°	1503.3	1501.0	1513.1	1531.3	1543.5
30°	1441.8	1442.6	1459.3	1483.5	1494.9
32.5°	1385.6	1378.8	1399.3	1409.9	1397.8
35°	1315.1	1309.0	1309.8	1243.0	1203.5
37.5°	1218.7	1224.0	1154.2	1032.0	980.4
40°	1092.0	1102.6	963.7	872.7	843.8
42.5°	938.7	941.7	790.0	760.4	741.4
45°	764.9	798.3	665.5	657.2	629.8
47.5°	606.3	668.5	557.7	563.1	497.8
50°	493.2	555.5	484.1	486.4	388.5
52.5°	390.0	450.8	427.2	420.4	305.1
55°	301.3	360.4	368.8	365.8	238.3
57.5°	221.6	285.3	309.6	321.0	183.6
60°	162.4	233.0	256.5	279.3	138.9
62.5°	129.0	201.9	210.2	243.6	107.8
65°	113.1	185.9	166.9	211.0	85.0
67.5°	100.9	176.8	135.8	186.7	74.4
70°	91.1	159.4	117.6	166.9	70.6
72.5°	91.1	139.6	92.6	148.0	71.3
75°	82.7	119.1	63.7	125.2	71.3
77.5°	73.6	101.7	47.8	101.7	66.8
80°	63.7	79.7	39.5	78.2	59.9
82.5°	47.0	59.9	34.1	58.4	48.6
85°	30.4	49.3	34.9	42.5	34.1
87.5°	14.4	25.0	22.0	21.2	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)