

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: P291524

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291524
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-LD5-40-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3676.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

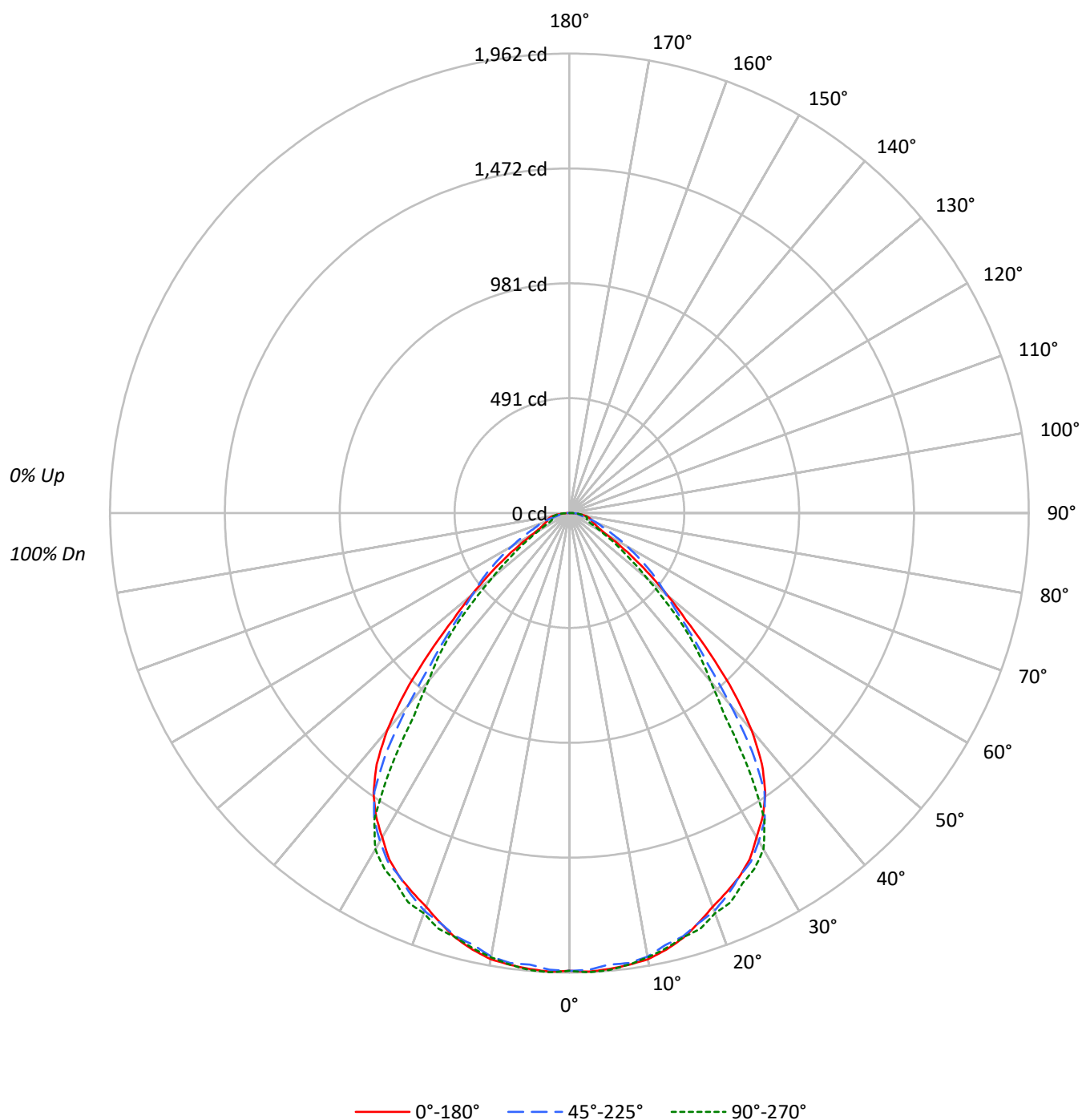
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	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°	5260	5260	5260
5°	5278	5228	5289
10°	5286	5254	5263
15°	5232	5214	5226
20°	5123	5178	5207
25°	5092	5089	5187
30°	4968	5028	5151
35°	4791	4771	4384
40°	4254	3754	3287
45°	3228	2809	2658
50°	2290	2248	1804
55°	1567	1919	1240
60°	969	1531	829
65°	798	1179	600
70°	795	1026	616
75°	953	735	822
80°	1096	679	1031
85°	1041	1195	1170



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.5	5.0
10°-20°	529.4	14.4
20°-30°	796.1	21.7
30°-40°	867.9	23.6
40°-50°	607.7	16.5
50°-60°	344.0	9.4
60°-70°	188.2	5.1
70°-80°	114.1	3.1
80°-90°	43.3	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°	1510.9	41.1
0°-40°	2378.8	64.7
0°-60°	3330.5	90.6
0°-90°	3676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1955	1955	1955	1955	1955	
5°	1954	1950	1935	1958	1958	186
15°	1878	1873	1871	1898	1876	528
25°	1715	1718	1714	1754	1747	788
35°	1458	1452	1452	1378	1335	899
45°	848	885	738	729	698	659
55°	334	400	409	406	264	305
65°	125	206	185	234	94	129
75°	92	132	71	139	79	95
85°	34	55	39	47	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1954.8	1954.8	1954.8	1954.8	1954.8
2.5°	1959.8	1957.3	1951.4	1963.2	1962.3
5°	1953.9	1950.5	1935.4	1958.1	1958.1
7.5°	1945.5	1937.1	1937.9	1950.5	1944.7
10°	1934.6	1920.3	1922.8	1926.1	1926.1
12.5°	1909.3	1895.9	1889.1	1900.1	1903.4
15°	1878.2	1873.1	1871.4	1898.4	1875.7
17.5°	1834.4	1845.4	1835.3	1857.1	1860.5
20°	1789.0	1810.0	1808.3	1823.5	1818.4
22.5°	1752.0	1765.4	1765.4	1783.9	1799.1
25°	1714.9	1718.3	1714.1	1753.6	1746.9
27.5°	1667.0	1664.4	1677.9	1698.1	1711.6
30°	1598.8	1599.6	1618.2	1645.1	1657.7
32.5°	1536.5	1529.0	1551.7	1563.5	1550.0
35°	1458.3	1451.5	1452.4	1378.3	1334.6
37.5°	1351.4	1357.3	1279.9	1144.4	1087.2
40°	1210.9	1222.7	1068.7	967.7	935.7
42.5°	1040.9	1044.3	876.0	843.2	822.1
45°	848.2	885.2	738.0	728.7	698.4
47.5°	672.3	741.3	618.5	624.4	552.0
50°	547.0	616.0	536.9	539.4	430.8
52.5°	432.5	499.8	473.8	466.2	338.3
55°	334.1	399.7	409.0	405.6	264.2
57.5°	245.7	316.4	343.3	355.9	203.6
60°	180.1	258.3	284.4	309.7	154.0
62.5°	143.1	223.8	233.1	270.1	119.5
65°	125.4	206.2	185.1	233.9	94.2
67.5°	111.9	196.1	150.6	207.0	82.5
70°	101.0	176.7	130.4	185.1	78.3
72.5°	101.0	154.8	102.7	164.1	79.1
75°	91.7	132.1	70.7	138.8	79.1
77.5°	81.6	112.8	53.0	112.8	74.1
80°	70.7	88.4	43.8	86.7	66.5
82.5°	52.2	66.5	37.9	64.8	53.9
85°	33.7	54.7	38.7	47.1	37.9
87.5°	16.0	27.8	24.4	23.6	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)