

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: P291530

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291530
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-LD5-43-A19/156-UNV-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

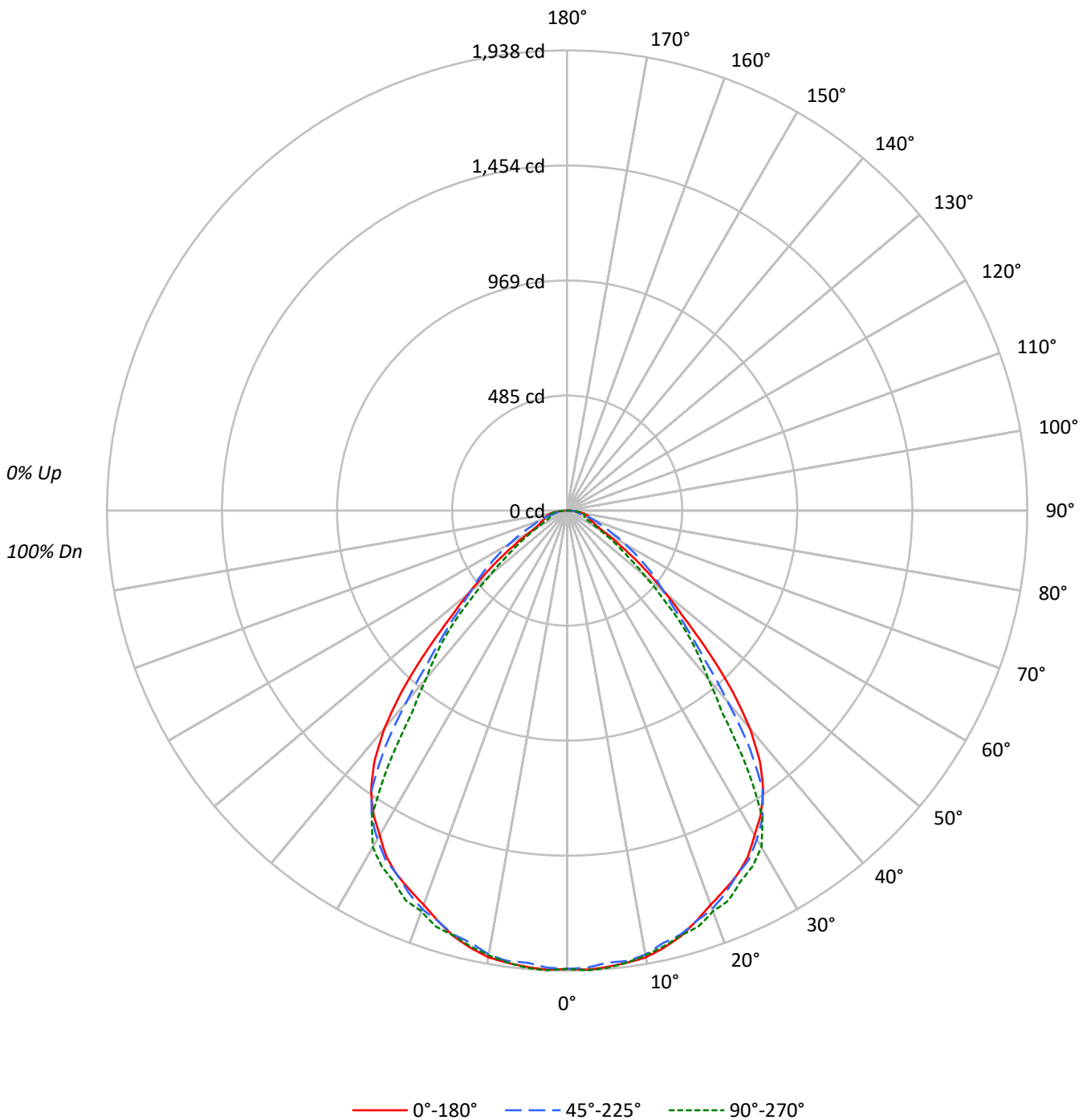
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5194	5194	5194
5°	5212	5163	5223
10°	5220	5188	5197
15°	5167	5148	5160
20°	5059	5114	5142
25°	5028	5026	5122
30°	4906	4965	5087
35°	4731	4711	4329
40°	4200	3707	3246
45°	3188	2773	2625
50°	2261	2219	1781
55°	1548	1894	1224
60°	957	1512	819
65°	788	1164	593
70°	784	1013	608
75°	942	726	812
80°	1082	669	1017
85°	1025	1179	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	5.0
10°-20°	522.8	14.4
20°-30°	786.1	21.7
30°-40°	857.0	23.6
40°-50°	600.1	16.5
50°-60°	339.7	9.4
60°-70°	185.9	5.1
70°-80°	112.6	3.1
80°-90°	42.7	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°	1492.0	41.1
0°-40°	2349.0	64.7
0°-60°	3288.8	90.6
0°-90°	3630.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1930	1926	1911	1934	1934	184
15°	1855	1850	1848	1875	1852	522
25°	1694	1697	1693	1732	1725	778
35°	1440	1433	1434	1361	1318	887
45°	838	874	729	720	690	651
55°	330	395	404	400	261	302
65°	124	204	183	231	93	127
75°	91	130	70	137	78	94
85°	33	54	38	46	37	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1930.3	1930.3	1930.3	1930.3	1930.3
2.5°	1935.3	1932.8	1927.0	1938.6	1937.8
5°	1929.5	1926.1	1911.2	1933.6	1933.6
7.5°	1921.2	1912.8	1913.7	1926.1	1920.3
10°	1910.4	1896.2	1898.7	1902.0	1902.0
12.5°	1885.4	1872.1	1865.5	1876.3	1879.6
15°	1854.7	1849.7	1848.0	1874.6	1852.2
17.5°	1811.5	1822.3	1812.3	1833.9	1837.2
20°	1766.6	1787.4	1785.7	1800.7	1795.7
22.5°	1730.0	1743.3	1743.3	1761.6	1776.6
25°	1693.5	1696.8	1692.6	1731.7	1725.0
27.5°	1646.1	1643.6	1656.9	1676.9	1690.1
30°	1578.8	1579.6	1597.9	1624.5	1637.0
32.5°	1517.3	1509.8	1532.3	1543.9	1530.6
35°	1440.0	1433.4	1434.2	1361.1	1317.9
37.5°	1334.5	1340.3	1263.9	1130.1	1073.6
40°	1195.7	1207.4	1055.3	955.6	924.0
42.5°	1027.9	1031.2	865.0	832.6	811.8
45°	837.6	874.2	728.7	719.6	689.7
47.5°	663.9	732.1	610.7	616.6	545.1
50°	540.1	608.3	530.1	532.6	425.4
52.5°	427.1	493.6	467.8	460.3	334.0
55°	329.9	394.7	403.8	400.5	260.9
57.5°	242.6	312.4	339.0	351.5	201.1
60°	177.8	255.1	280.9	305.8	152.1
62.5°	141.3	221.0	230.2	266.7	118.0
65°	123.8	203.6	182.8	231.0	93.1
67.5°	110.5	193.6	148.7	204.4	81.4
70°	99.7	174.5	128.8	182.8	77.3
72.5°	99.7	152.9	101.4	162.0	78.1
75°	90.6	130.5	69.8	137.1	78.1
77.5°	80.6	111.3	52.3	111.3	73.1
80°	69.8	87.2	43.2	85.6	65.6
82.5°	51.5	65.6	37.4	64.0	53.2
85°	33.2	54.0	38.2	46.5	37.4
87.5°	15.8	27.4	24.1	23.3	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)