

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: P291516

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291516
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3336.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

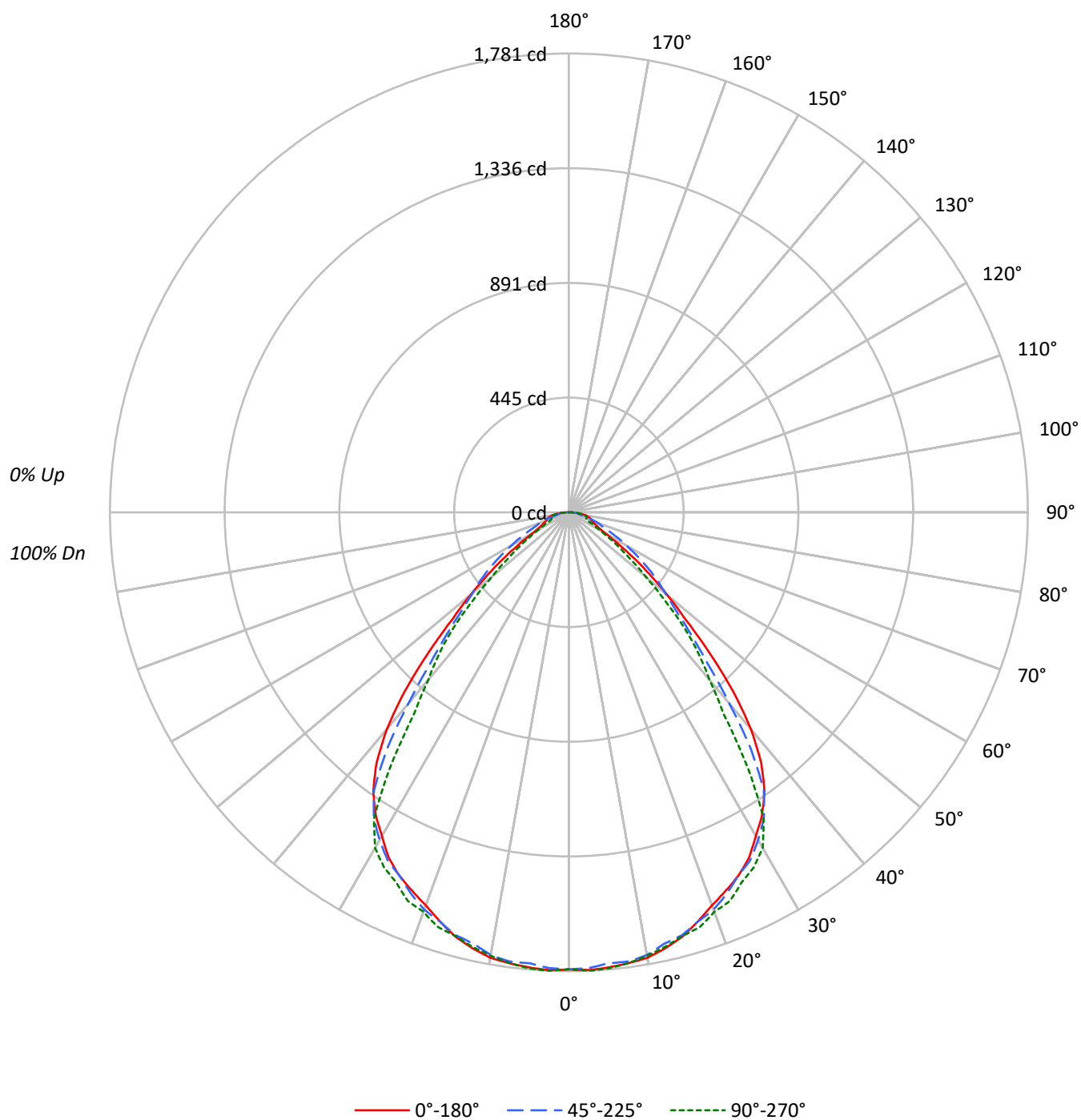
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4774	4774	4774
5°	4790	4744	4800
10°	4797	4768	4776
15°	4749	4732	4742
20°	4649	4700	4726
25°	4621	4619	4707
30°	4508	4563	4675
35°	4347	4330	3979
40°	3860	3407	2983
45°	2930	2549	2412
50°	2078	2040	1637
55°	1422	1741	1125
60°	879	1389	752
65°	725	1070	544
70°	721	932	559
75°	865	666	747
80°	993	615	934
85°	942	1084	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	5.0
10°-20°	480.4	14.4
20°-30°	722.5	21.7
30°-40°	787.6	23.6
40°-50°	551.5	16.5
50°-60°	312.2	9.4
60°-70°	170.8	5.1
70°-80°	103.5	3.1
80°-90°	39.2	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°	1371.2	41.1
0°-40°	2158.8	64.7
0°-60°	3022.4	90.6
0°-90°	3336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1773	1770	1756	1777	1777	169
15°	1704	1700	1698	1723	1702	479
25°	1556	1559	1556	1591	1585	715
35°	1323	1317	1318	1251	1211	815
45°	770	803	670	661	634	598
55°	303	363	371	368	240	277
65°	114	187	168	212	86	117
75°	83	120	64	126	72	86
85°	30	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°	1774.0	1774.0	1774.0	1774.0	1774.0
2.5°	1778.5	1776.2	1770.9	1781.6	1780.8
5°	1773.2	1770.1	1756.4	1777.0	1777.0
7.5°	1765.6	1757.9	1758.7	1770.1	1764.8
10°	1755.6	1742.6	1744.9	1748.0	1748.0
12.5°	1732.7	1720.5	1714.4	1724.3	1727.4
15°	1704.5	1699.9	1698.4	1722.8	1702.2
17.5°	1664.8	1674.7	1665.5	1685.4	1688.4
20°	1623.5	1642.6	1641.1	1654.8	1650.2
22.5°	1589.9	1602.1	1602.1	1618.9	1632.7
25°	1556.3	1559.4	1555.6	1591.4	1585.3
27.5°	1512.8	1510.5	1522.7	1541.0	1553.3
30°	1450.9	1451.7	1468.5	1492.9	1504.4
32.5°	1394.4	1387.5	1408.2	1418.9	1406.6
35°	1323.4	1317.3	1318.1	1250.9	1211.1
37.5°	1226.4	1231.8	1161.5	1038.6	986.6
40°	1098.9	1109.6	969.8	878.2	849.2
42.5°	944.6	947.7	795.0	765.2	746.1
45°	769.8	803.4	669.7	661.3	633.8
47.5°	610.2	672.8	561.3	566.6	501.0
50°	496.4	559.0	487.2	489.5	391.0
52.5°	392.5	453.6	429.9	423.1	307.0
55°	303.2	362.7	371.1	368.1	239.8
57.5°	223.0	287.1	311.6	323.0	184.8
60°	163.4	234.4	258.1	281.0	139.7
62.5°	129.8	203.1	211.5	245.1	108.4
65°	113.8	187.1	168.0	212.3	85.5
67.5°	101.6	177.9	136.7	187.9	74.8
70°	91.6	160.4	118.4	168.0	71.0
72.5°	91.6	140.5	93.2	148.9	71.8
75°	83.2	119.9	64.1	126.0	71.8
77.5°	74.1	102.3	48.1	102.3	67.2
80°	64.1	80.2	39.7	78.7	60.3
82.5°	47.3	60.3	34.4	58.8	48.9
85°	30.5	49.6	35.1	42.8	34.4
87.5°	14.5	25.2	22.1	21.4	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)