

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: P291028

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3862.0 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

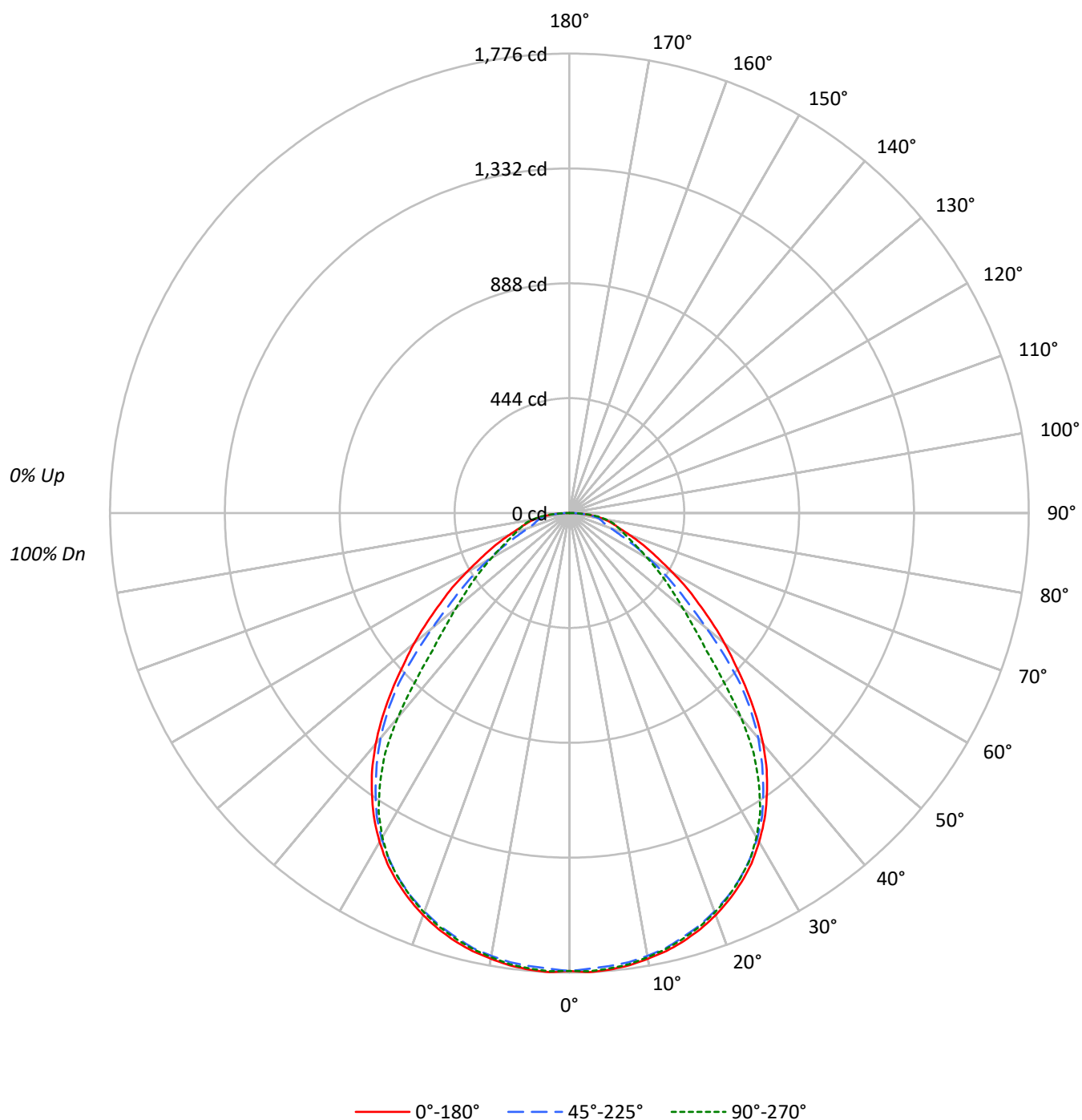
Input Watts (W): 30.597
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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		100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		74
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56		56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4762	4762	4762
5°	4785	4749	4773
10°	4779	4750	4762
15°	4770	4728	4743
20°	4737	4693	4706
25°	4674	4629	4631
30°	4560	4512	4493
35°	4373	4293	4196
40°	4093	3989	3630
45°	3697	3557	2837
50°	3278	2888	2400
55°	2861	2369	2117
60°	2481	1950	1868
65°	2176	1565	1725
70°	1941	1327	1736
75°	1893	1398	1940
80°	2098	1765	2224
85°	2189	1883	2603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	4.3
10°-20°	481.0	12.5
20°-30°	719.6	18.6
30°-40°	812.3	21.0
40°-50°	689.1	17.8
50°-60°	466.2	12.1
60°-70°	278.3	7.2
70°-80°	174.3	4.5
80°-90°	73.3	1.9
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°	1368.5	35.4
0°-40°	2180.8	56.5
0°-60°	3336.1	86.4
0°-90°	3862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1772	1766	1758	1771	1767	168
15°	1712	1709	1697	1709	1702	483
25°	1574	1569	1559	1566	1560	724
35°	1331	1322	1307	1295	1277	829
45°	971	975	935	801	745	749
55°	610	581	505	452	451	549
65°	342	283	246	262	271	342
75°	182	162	134	178	187	196
85°	71	67	61	79	84	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1769.7	1769.7	1769.7	1769.7	1769.7
2.5°	1776.0	1770.6	1762.6	1773.3	1772.4
5°	1771.5	1766.2	1758.1	1770.6	1767.0
7.5°	1763.5	1759.0	1750.9	1762.6	1759.0
10°	1749.1	1745.5	1738.3	1748.2	1742.8
12.5°	1733.9	1731.2	1722.2	1731.2	1725.8
15°	1712.3	1708.7	1697.1	1708.7	1702.5
17.5°	1685.4	1680.9	1671.1	1680.9	1675.6
20°	1654.0	1648.6	1638.8	1648.6	1643.3
22.5°	1616.4	1611.9	1602.9	1611.9	1604.7
25°	1574.2	1568.8	1558.9	1566.1	1559.8
27.5°	1525.8	1518.6	1509.6	1515.0	1511.4
30°	1467.5	1458.5	1452.2	1452.2	1445.9
32.5°	1403.8	1397.5	1386.7	1380.5	1372.4
35°	1331.1	1322.1	1306.9	1295.2	1277.3
37.5°	1253.1	1242.3	1223.5	1193.9	1169.7
40°	1165.2	1151.7	1135.6	1077.3	1033.3
42.5°	1071.0	1068.3	1040.5	940.9	879.9
45°	971.4	975.0	934.7	801.0	745.4
47.5°	871.0	883.5	810.0	679.0	650.3
50°	783.1	787.5	689.8	589.3	573.2
52.5°	692.5	685.3	588.4	518.5	506.8
55°	609.9	581.2	505.0	452.1	451.2
57.5°	537.3	484.4	431.4	392.0	396.5
60°	461.0	401.8	362.4	340.9	347.1
62.5°	393.8	337.3	302.3	296.0	306.8
65°	341.7	283.4	245.8	261.9	270.9
67.5°	292.4	243.1	200.0	238.6	242.2
70°	246.7	210.8	168.6	219.8	220.7
72.5°	209.0	186.6	146.2	199.1	201.8
75°	182.1	162.4	134.5	177.6	186.6
77.5°	159.7	139.0	124.7	153.4	168.6
80°	135.4	112.1	113.9	128.3	143.5
82.5°	104.0	87.0	90.6	105.8	116.6
85°	70.9	67.3	61.0	78.9	84.3
87.5°	37.7	35.9	31.4	44.8	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)