

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: P291025

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291025
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3804.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

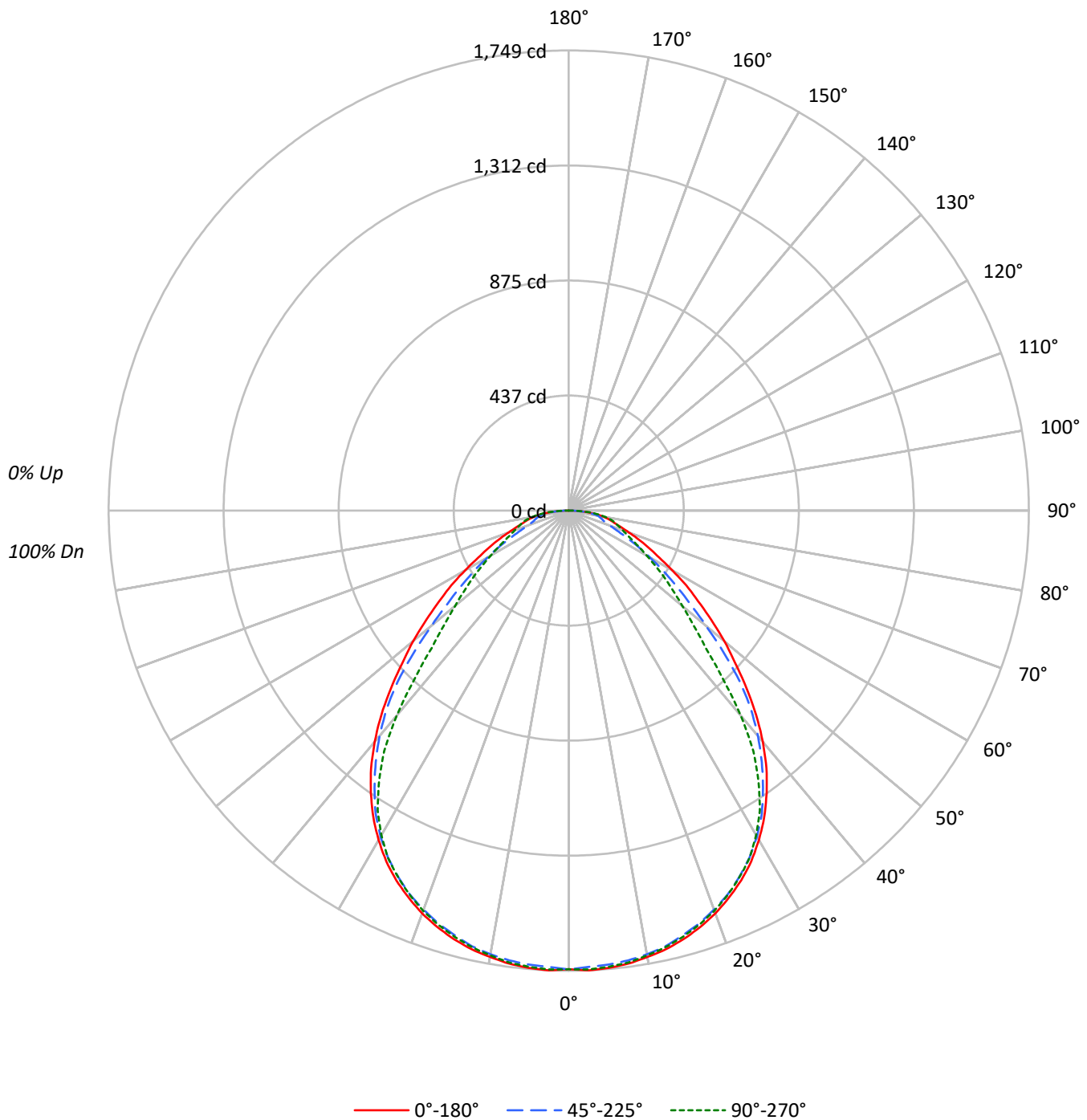
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4691	4691	4691
5°	4713	4678	4702
10°	4708	4679	4691
15°	4699	4657	4672
20°	4666	4623	4635
25°	4604	4559	4562
30°	4491	4445	4425
35°	4307	4229	4133
40°	4032	3929	3575
45°	3641	3503	2794
50°	3229	2844	2364
55°	2819	2334	2085
60°	2444	1921	1840
65°	2143	1542	1699
70°	1912	1307	1710
75°	1865	1378	1911
80°	2067	1739	2191
85°	2155	1856	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	4.3
10°-20°	473.8	12.5
20°-30°	708.8	18.6
30°-40°	800.1	21.0
40°-50°	678.7	17.8
50°-60°	459.2	12.1
60°-70°	274.1	7.2
70°-80°	171.7	4.5
80°-90°	72.2	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°	1347.9	35.4
0°-40°	2148.0	56.5
0°-60°	3286.0	86.4
0°-90°	3804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3804.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1745	1740	1732	1744	1740	166
15°	1687	1683	1672	1683	1677	476
25°	1551	1545	1536	1543	1536	713
35°	1311	1302	1287	1276	1258	817
45°	957	960	921	789	734	737
55°	601	572	497	445	444	541
65°	337	279	242	258	267	336
75°	179	160	132	175	184	193
85°	70	66	60	78	83	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1743.2	1743.2	1743.2	1743.2	1743.2
2.5°	1749.3	1744.0	1736.1	1746.7	1745.8
5°	1744.9	1739.6	1731.7	1744.0	1740.5
7.5°	1737.0	1732.6	1724.6	1736.1	1732.6
10°	1722.8	1719.3	1712.2	1722.0	1716.7
12.5°	1707.8	1705.2	1696.3	1705.2	1699.9
15°	1686.6	1683.1	1671.6	1683.1	1676.9
17.5°	1660.1	1655.7	1646.0	1655.7	1650.4
20°	1629.2	1623.9	1614.2	1623.9	1618.6
22.5°	1592.1	1587.7	1578.8	1587.7	1580.6
25°	1550.6	1545.3	1535.5	1542.6	1536.4
27.5°	1502.8	1495.8	1486.9	1492.2	1488.7
30°	1445.4	1436.6	1430.4	1430.4	1424.2
32.5°	1382.7	1376.5	1365.9	1359.7	1351.8
35°	1311.1	1302.3	1287.3	1275.8	1258.1
37.5°	1234.3	1223.7	1205.1	1175.9	1152.1
40°	1147.7	1134.4	1118.5	1061.1	1017.8
42.5°	1054.9	1052.3	1024.9	926.8	866.7
45°	956.8	960.4	920.6	789.0	734.2
47.5°	857.9	870.3	797.8	668.8	640.5
50°	771.3	775.7	679.4	580.5	564.6
52.5°	682.1	675.0	579.6	510.7	499.2
55°	600.8	572.5	497.4	445.3	444.4
57.5°	529.2	477.1	425.0	386.1	390.5
60°	454.1	395.8	356.9	335.7	341.9
62.5°	387.9	332.2	297.7	291.6	302.2
65°	336.6	279.2	242.1	258.0	266.8
67.5°	288.0	239.4	197.0	235.0	238.5
70°	243.0	207.6	166.1	216.5	217.3
72.5°	205.9	183.8	144.0	196.1	198.8
75°	179.4	159.9	132.5	174.9	183.8
77.5°	157.3	136.9	122.8	151.1	166.1
80°	133.4	110.4	112.2	126.3	141.4
82.5°	102.5	85.7	89.2	104.3	114.9
85°	69.8	66.3	60.1	77.7	83.0
87.5°	37.1	35.3	30.9	44.2	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)