

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: P291021

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291021
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3488.0 lumens
Efficiency: N/A
Efficacy: 119.8 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

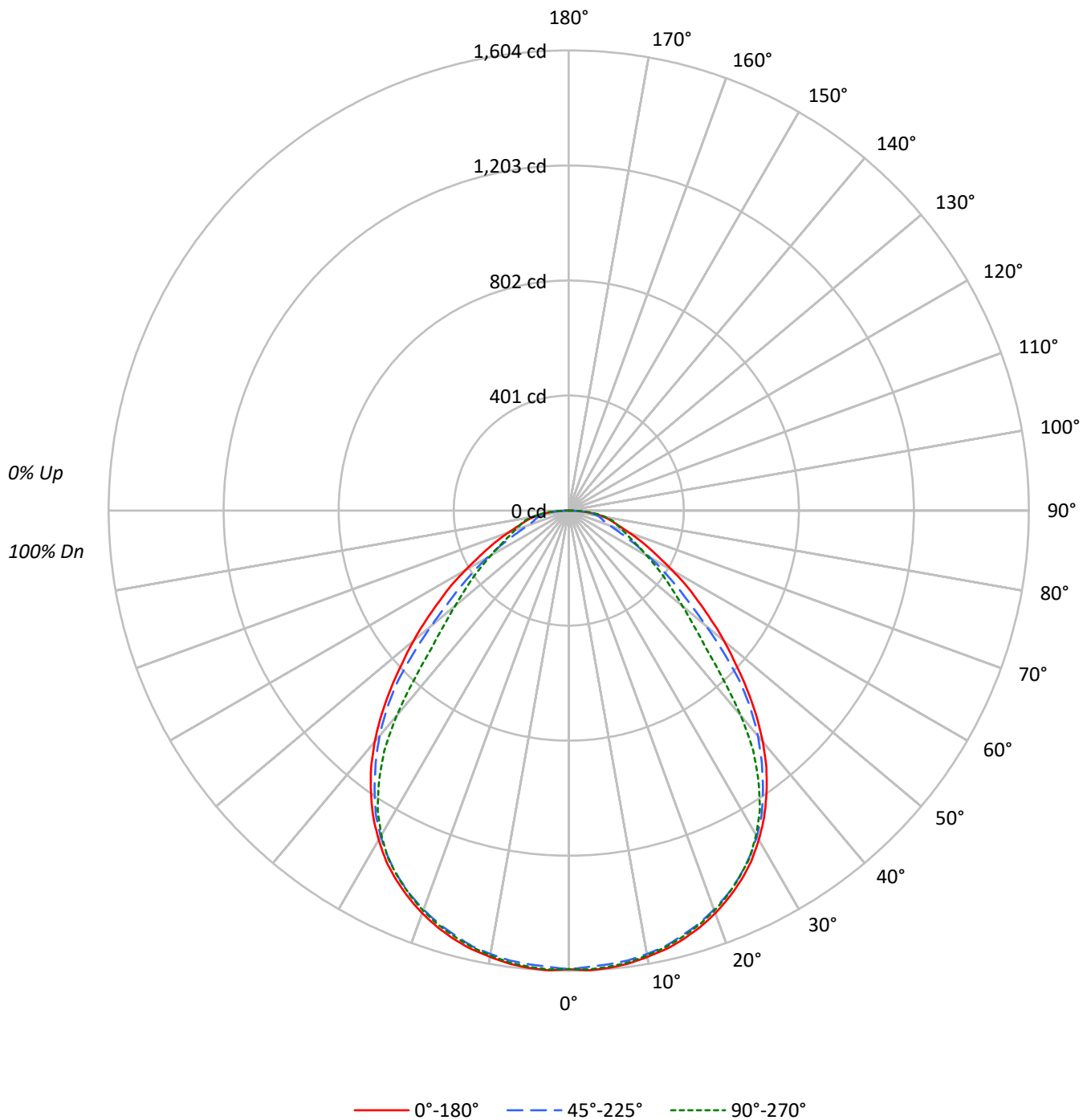
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4301	4301	4301
5°	4322	4289	4311
10°	4317	4290	4301
15°	4308	4270	4284
20°	4278	4239	4250
25°	4222	4181	4183
30°	4118	4076	4058
35°	3949	3877	3790
40°	3697	3603	3279
45°	3339	3212	2562
50°	2961	2608	2167
55°	2585	2140	1912
60°	2241	1762	1687
65°	1966	1414	1558
70°	1753	1198	1568
75°	1710	1263	1752
80°	1895	1595	2008
85°	1976	1701	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	4.3
10°-20°	434.4	12.5
20°-30°	649.9	18.6
30°-40°	733.6	21.0
40°-50°	622.3	17.8
50°-60°	421.1	12.1
60°-70°	251.4	7.2
70°-80°	157.4	4.5
80°-90°	66.2	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°	1236.0	35.4
0°-40°	1969.6	56.5
0°-60°	3013.0	86.4
0°-90°	3488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1600	1595	1588	1599	1596	152
15°	1546	1543	1533	1543	1538	436
25°	1422	1417	1408	1414	1409	654
35°	1202	1194	1180	1170	1154	749
45°	877	881	844	723	673	676
55°	551	525	456	408	408	496
65°	309	256	222	237	245	308
75°	164	147	122	160	168	177
85°	64	61	55	71	76	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.4	1598.4	1598.4	1598.4	1598.4
2.5°	1604.0	1599.2	1591.9	1601.6	1600.8
5°	1600.0	1595.1	1587.8	1599.2	1595.9
7.5°	1592.7	1588.6	1581.3	1591.9	1588.6
10°	1579.7	1576.5	1570.0	1578.9	1574.1
12.5°	1566.0	1563.5	1555.4	1563.5	1558.7
15°	1546.5	1543.3	1532.7	1543.3	1537.6
17.5°	1522.2	1518.2	1509.2	1518.2	1513.3
20°	1493.9	1489.0	1480.1	1489.0	1484.1
22.5°	1459.8	1455.8	1447.7	1455.8	1449.3
25°	1421.8	1416.9	1408.0	1414.5	1408.8
27.5°	1378.0	1371.5	1363.4	1368.3	1365.0
30°	1325.3	1317.2	1311.6	1311.6	1305.9
32.5°	1267.8	1262.2	1252.4	1246.8	1239.5
35°	1202.2	1194.1	1180.3	1169.8	1153.6
37.5°	1131.7	1122.0	1105.0	1078.3	1056.4
40°	1052.3	1040.2	1025.6	972.9	933.3
42.5°	967.3	964.8	939.7	849.8	794.7
45°	877.4	880.6	844.1	723.4	673.2
47.5°	786.6	798.0	731.5	613.3	587.3
50°	707.2	711.3	623.0	532.2	517.7
52.5°	625.4	618.9	531.4	468.2	457.7
55°	550.9	525.0	456.1	408.3	407.5
57.5°	485.3	437.5	389.7	354.0	358.1
60°	416.4	362.9	327.3	307.8	313.5
62.5°	355.6	304.6	273.0	267.3	277.1
65°	308.7	256.0	222.0	236.6	244.7
67.5°	264.1	219.5	180.7	215.5	218.7
70°	222.8	190.4	152.3	198.5	199.3
72.5°	188.8	168.5	132.0	179.8	182.3
75°	164.5	146.6	121.5	160.4	168.5
77.5°	144.2	125.6	112.6	138.5	152.3
80°	122.3	101.3	102.9	115.8	129.6
82.5°	94.0	78.6	81.8	95.6	105.3
85°	64.0	60.8	55.1	71.3	76.2
87.5°	34.0	32.4	28.4	40.5	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)