

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: P291026

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291026
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 127.5 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

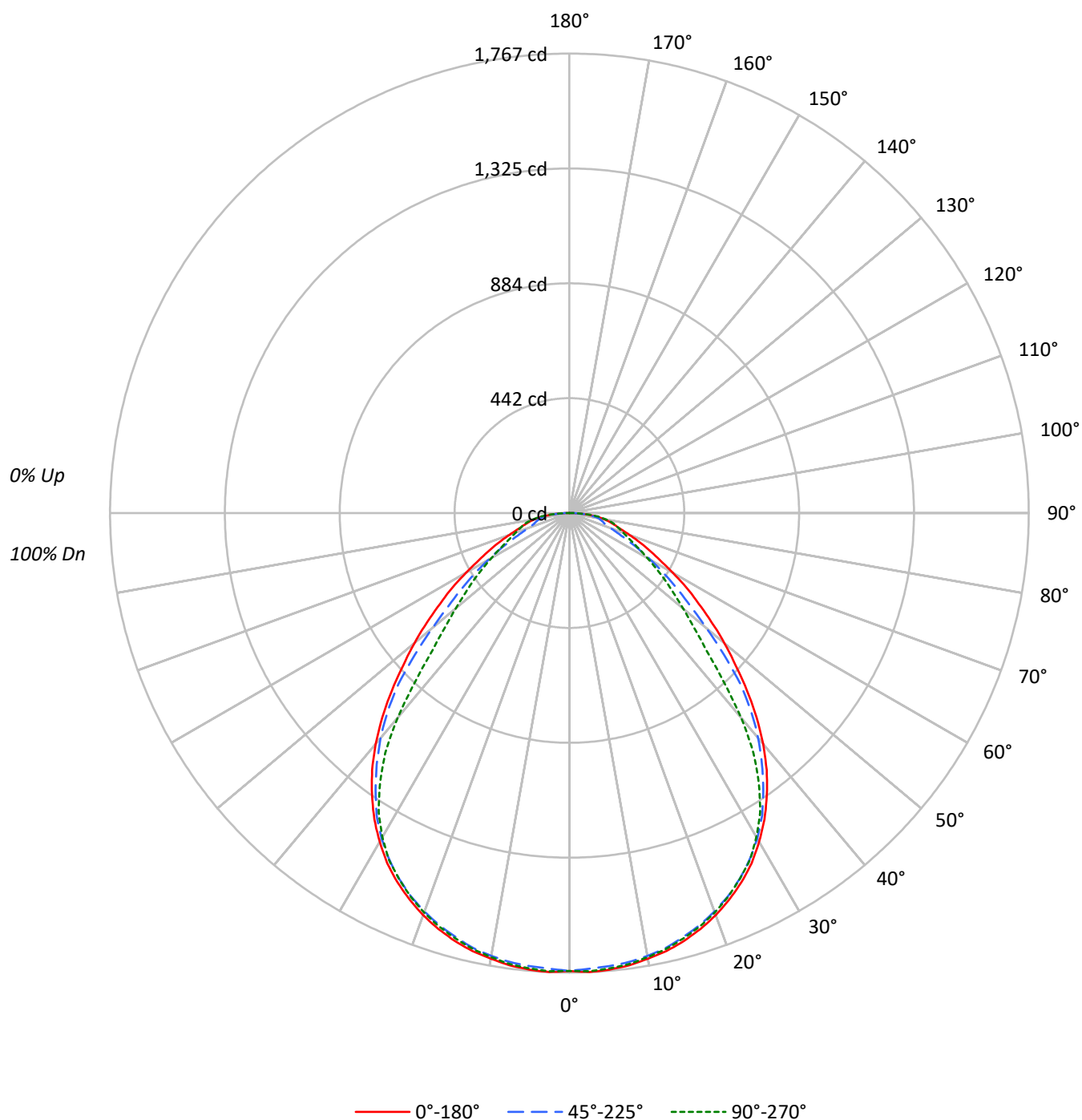
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4738	4738	4738
5°	4761	4725	4749
10°	4755	4725	4738
15°	4746	4703	4718
20°	4712	4669	4682
25°	4650	4605	4608
30°	4536	4489	4470
35°	4350	4271	4174
40°	4072	3968	3611
45°	3678	3538	2822
50°	3261	2873	2387
55°	2847	2357	2106
60°	2469	1940	1858
65°	2165	1557	1716
70°	1931	1320	1727
75°	1883	1392	1930
80°	2087	1756	2213
85°	2177	1874	2590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	4.3
10°-20°	478.5	12.5
20°-30°	715.8	18.6
30°-40°	808.1	21.0
40°-50°	685.5	17.8
50°-60°	463.8	12.1
60°-70°	276.9	7.2
70°-80°	173.4	4.5
80°-90°	72.9	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°	1361.4	35.4
0°-40°	2169.5	56.5
0°-60°	3318.8	86.4
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1762	1757	1749	1762	1758	168
15°	1704	1700	1688	1700	1694	480
25°	1566	1561	1551	1558	1552	720
35°	1324	1315	1300	1288	1271	825
45°	966	970	930	797	742	745
55°	607	578	502	450	449	547
65°	340	282	244	261	270	340
75°	181	162	134	177	186	195
85°	70	67	61	78	84	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.6	1760.6	1760.6	1760.6	1760.6
2.5°	1766.8	1761.5	1753.4	1764.1	1763.3
5°	1762.4	1757.0	1749.0	1761.5	1757.9
7.5°	1754.3	1749.9	1741.8	1753.4	1749.9
10°	1740.1	1736.5	1729.3	1739.2	1733.8
12.5°	1724.9	1722.2	1713.3	1722.2	1716.9
15°	1703.5	1699.9	1688.3	1699.9	1693.6
17.5°	1676.7	1672.2	1662.4	1672.2	1666.9
20°	1645.5	1640.1	1630.3	1640.1	1634.8
22.5°	1608.0	1603.5	1594.6	1603.5	1596.4
25°	1566.0	1560.7	1550.9	1558.0	1551.8
27.5°	1517.9	1510.7	1501.8	1507.2	1503.6
30°	1459.9	1450.9	1444.7	1444.7	1438.4
32.5°	1396.5	1390.3	1379.5	1373.3	1365.3
35°	1324.2	1315.3	1300.1	1288.5	1270.7
37.5°	1246.6	1235.9	1217.1	1187.7	1163.6
40°	1159.1	1145.8	1129.7	1071.7	1028.0
42.5°	1065.4	1062.8	1035.1	936.1	875.4
45°	966.4	970.0	929.8	796.9	741.5
47.5°	866.5	878.9	805.8	675.5	646.9
50°	779.0	783.5	686.2	586.3	570.2
52.5°	688.9	681.7	585.4	515.8	504.2
55°	606.8	578.2	502.4	449.7	448.8
57.5°	534.5	481.9	429.2	389.9	394.4
60°	458.7	399.8	360.5	339.1	345.3
62.5°	391.7	335.5	300.7	294.5	305.2
65°	340.0	282.0	244.5	260.6	269.5
67.5°	290.9	241.8	199.0	237.4	240.9
70°	245.4	209.7	167.8	218.6	219.5
72.5°	207.9	185.6	145.5	198.1	200.8
75°	181.1	161.5	133.9	176.7	185.6
77.5°	158.8	138.3	124.0	152.6	167.8
80°	134.7	111.5	113.3	127.6	142.8
82.5°	103.5	86.6	90.1	105.3	116.0
85°	70.5	66.9	60.7	78.5	83.9
87.5°	37.5	35.7	31.2	44.6	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)