

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: P291027

Luminaire Tested: **14GR-LD5-36-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291027
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.0 lumens
Efficiency: N/A
Efficacy: 127.8 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

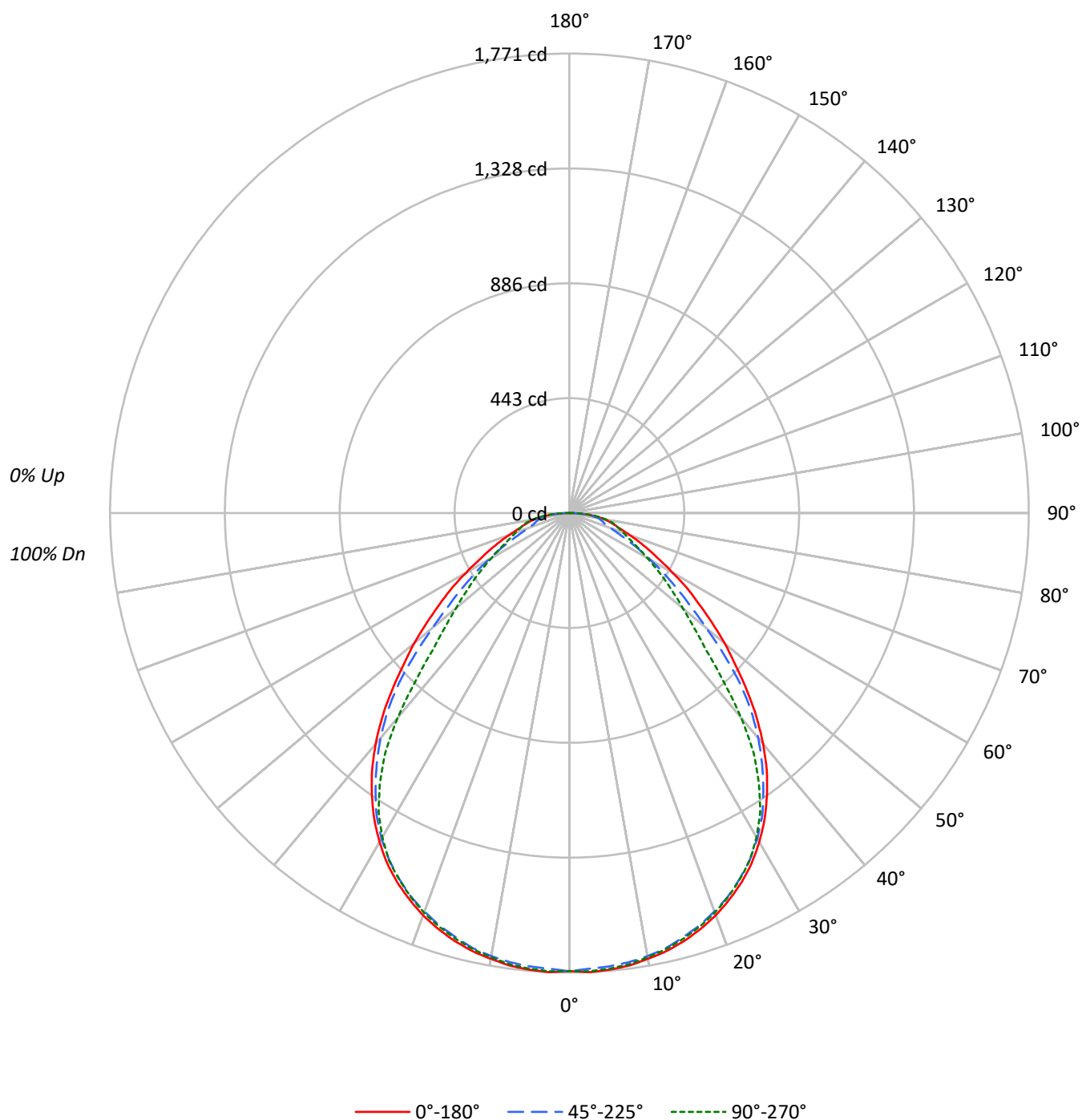
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4750	4750	4750
5°	4773	4737	4761
10°	4767	4738	4750
15°	4758	4716	4731
20°	4724	4681	4694
25°	4662	4617	4619
30°	4548	4501	4481
35°	4362	4282	4185
40°	4083	3979	3620
45°	3687	3548	2829
50°	3270	2880	2393
55°	2854	2363	2111
60°	2475	1945	1863
65°	2171	1561	1720
70°	1936	1323	1732
75°	1888	1395	1935
80°	2094	1760	2218
85°	2183	1877	2597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	4.3
10°-20°	479.8	12.5
20°-30°	717.7	18.6
30°-40°	810.2	21.0
40°-50°	687.3	17.8
50°-60°	465.0	12.1
60°-70°	277.6	7.2
70°-80°	173.8	4.5
80°-90°	73.1	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°	1364.9	35.4
0°-40°	2175.1	56.5
0°-60°	3327.4	86.4
0°-90°	3852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1765	1765	1765	1765	1765	
5°	1767	1762	1754	1766	1762	168
15°	1708	1704	1693	1704	1698	482
25°	1570	1565	1555	1562	1556	722
35°	1328	1319	1304	1292	1274	827
45°	969	972	932	799	744	747
55°	608	580	504	451	450	548
65°	341	283	245	261	270	341
75°	182	162	134	177	186	195
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°	1765.2	1765.2	1765.2	1765.2	1765.2
2.5°	1771.4	1766.1	1758.0	1768.7	1767.8
5°	1766.9	1761.6	1753.5	1766.1	1762.5
7.5°	1758.9	1754.4	1746.4	1758.0	1754.4
10°	1744.6	1741.0	1733.8	1743.7	1738.3
12.5°	1729.4	1726.7	1717.7	1726.7	1721.3
15°	1707.9	1704.3	1692.7	1704.3	1698.1
17.5°	1681.1	1676.6	1666.7	1676.6	1671.2
20°	1649.7	1644.4	1634.5	1644.4	1639.0
22.5°	1612.2	1607.7	1598.8	1607.7	1600.5
25°	1570.1	1564.8	1554.9	1562.1	1555.8
27.5°	1521.8	1514.7	1505.7	1511.1	1507.5
30°	1463.7	1454.7	1448.4	1448.4	1442.2
32.5°	1400.1	1393.9	1383.1	1376.9	1368.8
35°	1327.7	1318.7	1303.5	1291.9	1274.0
37.5°	1249.8	1239.1	1220.3	1190.8	1166.6
40°	1162.2	1148.7	1132.6	1074.5	1030.6
42.5°	1068.2	1065.5	1037.8	938.5	877.7
45°	968.9	972.5	932.2	798.9	743.5
47.5°	868.7	881.2	807.9	677.3	648.6
50°	781.0	785.5	688.0	587.8	571.7
52.5°	690.7	683.5	586.9	517.1	505.5
55°	608.4	579.7	503.7	450.9	450.0
57.5°	535.9	483.1	430.3	391.0	395.4
60°	459.9	400.8	361.4	340.0	346.2
62.5°	392.8	336.4	301.5	295.2	306.0
65°	340.9	282.7	245.1	261.2	270.2
67.5°	291.7	242.5	199.5	238.0	241.6
70°	246.0	210.2	168.2	219.2	220.1
72.5°	208.5	186.1	145.8	198.6	201.3
75°	181.6	161.9	134.2	177.1	186.1
77.5°	159.2	138.7	124.4	153.0	168.2
80°	135.1	111.8	113.6	127.9	143.1
82.5°	103.8	86.8	90.4	105.6	116.3
85°	70.7	67.1	60.8	78.7	84.1
87.5°	37.6	35.8	31.3	44.7	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)