

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: P291046

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291046
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-LD5-43-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: 4610.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

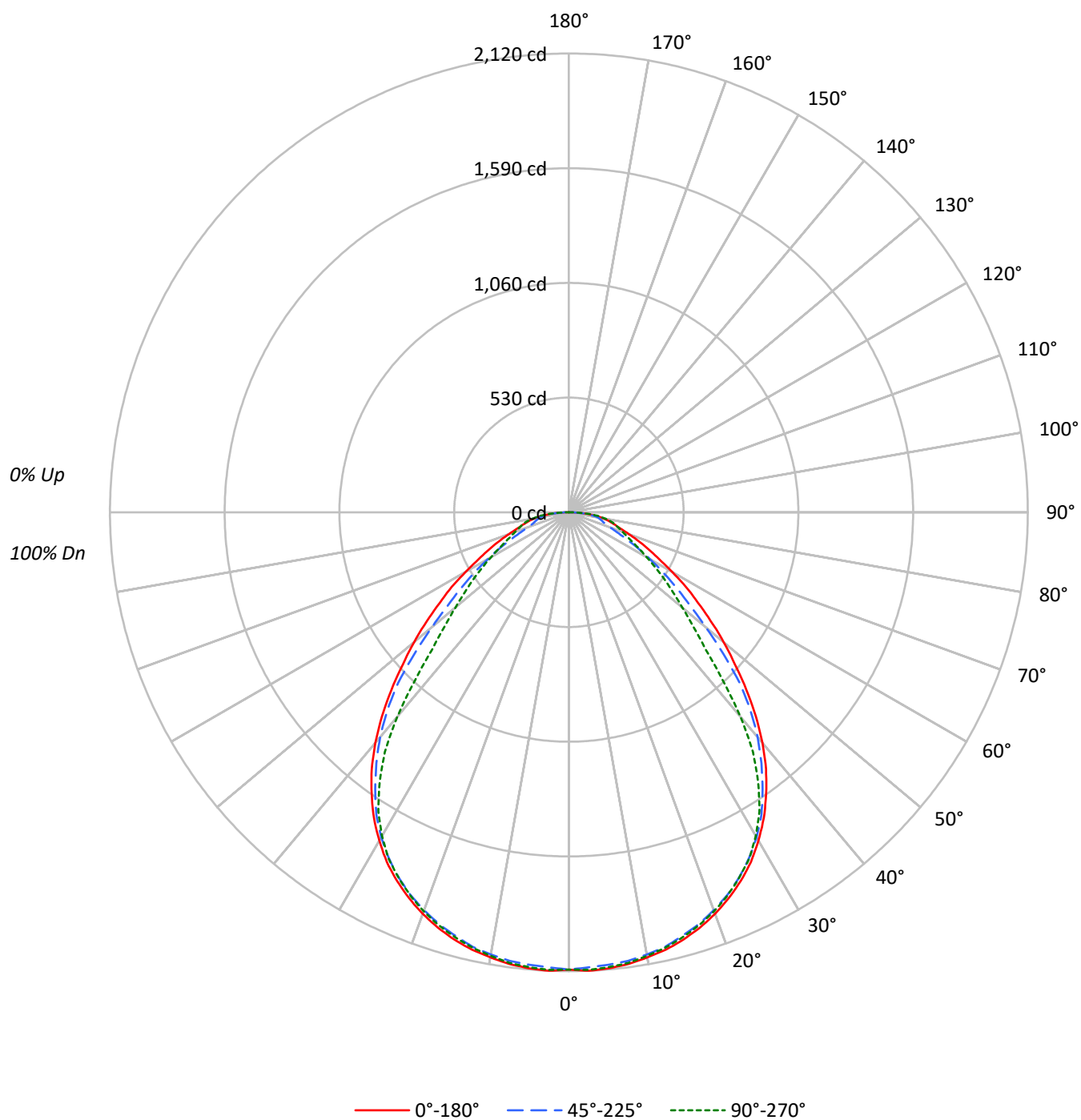
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5685	5685	5685
5°	5712	5669	5698
10°	5705	5670	5685
15°	5694	5644	5662
20°	5654	5602	5617
25°	5579	5525	5529
30°	5443	5386	5363
35°	5220	5125	5009
40°	4886	4762	4333
45°	4413	4246	3386
50°	3913	3447	2864
55°	3416	2828	2527
60°	2962	2328	2230
65°	2597	1868	2059
70°	2316	1584	2072
75°	2260	1670	2315
80°	2506	2108	2655
85°	2612	2248	3106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.4	4.3
10°-20°	574.2	12.5
20°-30°	858.9	18.6
30°-40°	969.6	21.0
40°-50°	822.5	17.8
50°-60°	556.6	12.1
60°-70°	332.2	7.2
70°-80°	208.0	4.5
80°-90°	87.5	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°	1633.6	35.4
0°-40°	2603.1	56.5
0°-60°	3982.2	86.4
0°-90°	4610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2112	2112	2112	2112	2112	
5°	2115	2108	2099	2114	2109	201
15°	2044	2040	2026	2040	2032	576
25°	1879	1873	1861	1870	1862	864
35°	1589	1578	1560	1546	1525	990
45°	1160	1164	1116	956	890	894
55°	728	694	603	540	539	656
65°	408	338	293	313	323	408
75°	217	194	161	212	223	234
85°	85	80	73	94	101	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2112.5	2112.5	2112.5	2112.5	2112.5
2.5°	2120.0	2113.6	2103.9	2116.8	2115.7
5°	2114.6	2108.2	2098.6	2113.6	2109.3
7.5°	2105.0	2099.7	2090.0	2103.9	2099.7
10°	2087.9	2083.6	2075.0	2086.8	2080.4
12.5°	2069.7	2066.5	2055.8	2066.5	2060.0
15°	2044.0	2039.7	2025.8	2039.7	2032.2
17.5°	2011.9	2006.5	1994.7	2006.5	2000.1
20°	1974.4	1968.0	1956.2	1968.0	1961.5
22.5°	1929.4	1924.1	1913.4	1924.1	1915.5
25°	1879.1	1872.7	1860.9	1869.5	1862.0
27.5°	1821.3	1812.7	1802.0	1808.4	1804.1
30°	1751.7	1741.0	1733.5	1733.5	1726.0
32.5°	1675.7	1668.2	1655.3	1647.8	1638.2
35°	1588.9	1578.2	1560.0	1546.1	1524.7
37.5°	1495.8	1482.9	1460.4	1425.1	1396.2
40°	1390.8	1374.8	1355.5	1285.9	1233.5
42.5°	1278.4	1275.2	1242.0	1123.2	1050.4
45°	1159.6	1163.9	1115.7	956.1	889.8
47.5°	1039.7	1054.6	966.8	810.5	776.3
50°	934.7	940.1	823.4	703.5	684.2
52.5°	826.6	818.0	702.4	618.9	604.9
55°	728.1	693.8	602.8	539.6	538.6
57.5°	641.4	578.2	515.0	467.9	473.3
60°	550.3	479.7	432.6	406.9	414.4
62.5°	470.0	402.6	360.8	353.3	366.2
65°	407.9	338.3	293.4	312.6	323.4
67.5°	349.1	290.2	238.8	284.8	289.1
70°	294.4	251.6	201.3	262.3	263.4
72.5°	249.5	222.7	174.5	237.7	240.9
75°	217.4	193.8	160.6	212.0	222.7
77.5°	190.6	166.0	148.8	183.1	201.3
80°	161.7	133.8	136.0	153.1	171.3
82.5°	124.2	103.9	108.1	126.3	139.2
85°	84.6	80.3	72.8	94.2	100.6
87.5°	45.0	42.8	37.5	53.5	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)