

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: P291042

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291042
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4480.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

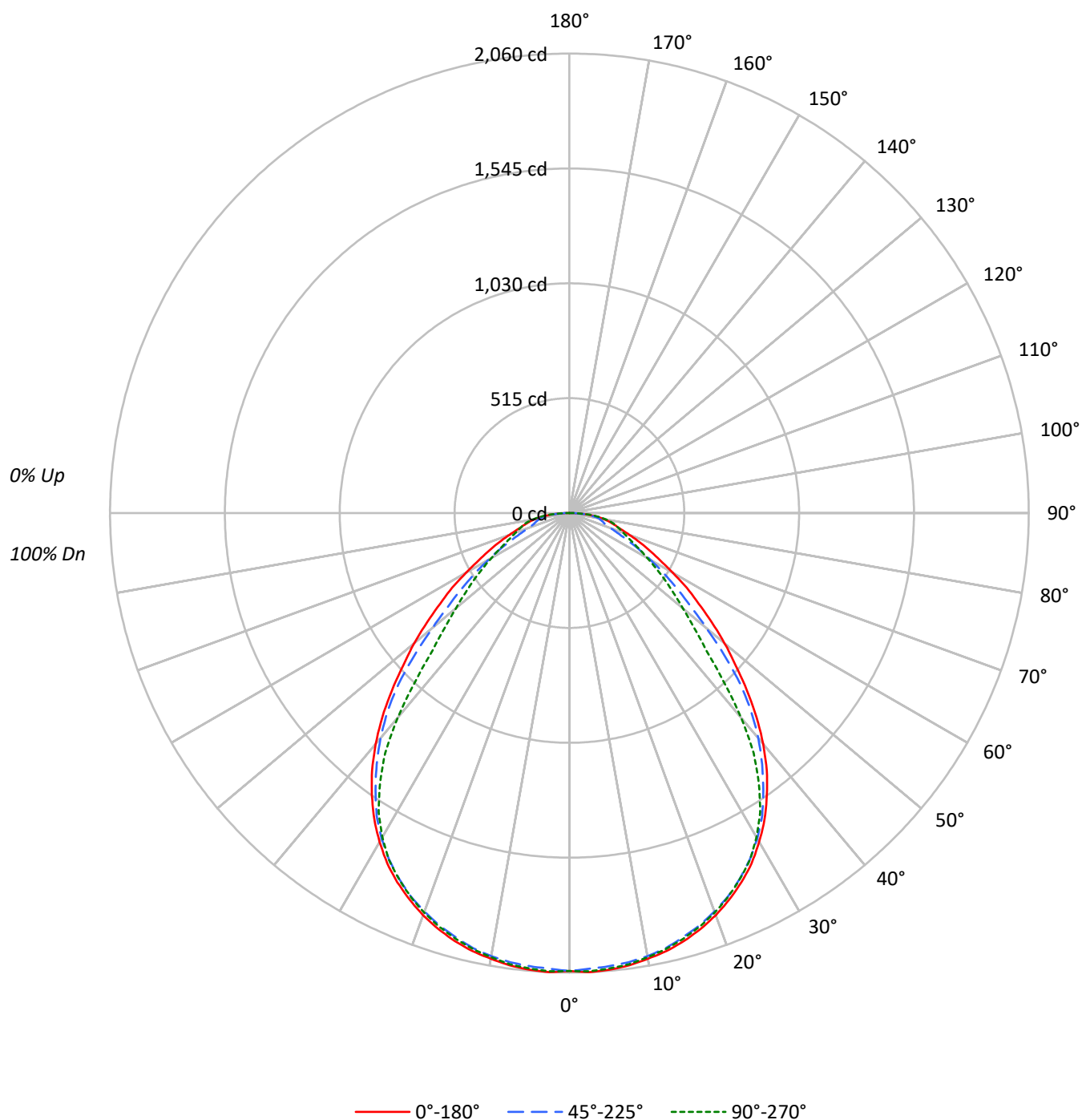
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5524	5524	5524
5°	5551	5509	5537
10°	5544	5510	5524
15°	5534	5485	5502
20°	5495	5444	5459
25°	5422	5369	5373
30°	5290	5235	5212
35°	5072	4980	4868
40°	4748	4627	4211
45°	4289	4126	3291
50°	3803	3350	2784
55°	3319	2748	2456
60°	2878	2263	2167
65°	2524	1815	2001
70°	2251	1539	2014
75°	2196	1623	2250
80°	2435	2047	2580
85°	2538	2186	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	4.3
10°-20°	558.0	12.5
20°-30°	834.7	18.6
30°-40°	942.2	21.0
40°-50°	799.4	17.8
50°-60°	540.9	12.1
60°-70°	322.8	7.2
70°-80°	202.2	4.5
80°-90°	85.1	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°	1587.5	35.4
0°-40°	2529.7	56.5
0°-60°	3870.0	86.4
0°-90°	4480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4480.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	2055	2049	2039	2054	2050	195
15°	1986	1982	1969	1982	1975	560
25°	1826	1820	1808	1817	1810	840
35°	1544	1534	1516	1502	1482	962
45°	1127	1131	1084	929	865	868
55°	708	674	586	524	523	637
65°	396	329	285	304	314	396
75°	211	188	156	206	216	227
85°	82	78	71	92	98	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2052.9	2052.9	2052.9	2052.9	2052.9
2.5°	2060.2	2054.0	2044.6	2057.1	2056.1
5°	2055.0	2048.8	2039.4	2054.0	2049.8
7.5°	2045.7	2040.4	2031.1	2044.6	2040.4
10°	2029.0	2024.8	2016.5	2028.0	2021.7
12.5°	2011.3	2008.2	1997.8	2008.2	2001.9
15°	1986.3	1982.2	1968.7	1982.2	1974.9
17.5°	1955.1	1949.9	1938.5	1949.9	1943.7
20°	1918.7	1912.5	1901.0	1912.5	1906.2
22.5°	1875.0	1869.8	1859.4	1869.8	1861.5
25°	1826.1	1819.9	1808.4	1816.7	1809.5
27.5°	1769.9	1761.6	1751.2	1757.4	1753.3
30°	1702.3	1691.9	1684.6	1684.6	1677.3
32.5°	1628.4	1621.1	1608.6	1601.4	1592.0
35°	1544.1	1533.7	1516.0	1502.5	1481.7
37.5°	1453.6	1441.1	1419.3	1384.9	1356.8
40°	1351.6	1336.0	1317.3	1249.7	1198.7
42.5°	1242.4	1239.3	1207.0	1091.5	1020.7
45°	1126.9	1131.0	1084.2	929.2	864.7
47.5°	1010.3	1024.9	939.6	787.7	754.4
50°	908.4	913.6	800.2	683.6	664.9
52.5°	803.3	795.0	682.6	601.4	587.9
55°	707.5	674.3	585.8	524.4	523.4
57.5°	623.3	561.9	500.5	454.7	459.9
60°	534.8	466.2	420.4	395.4	402.7
62.5°	456.8	391.2	350.7	343.4	355.9
65°	396.4	328.8	285.1	303.8	314.2
67.5°	339.2	282.0	232.0	276.8	280.9
70°	286.1	244.5	195.6	254.9	256.0
72.5°	242.4	216.4	169.6	231.0	234.1
75°	211.2	188.3	156.1	206.0	216.4
77.5°	185.2	161.3	144.6	177.9	195.6
80°	157.1	130.1	132.1	148.8	166.5
82.5°	120.7	100.9	105.1	122.8	135.3
85°	82.2	78.0	70.8	91.6	97.8
87.5°	43.7	41.6	36.4	52.0	48.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)