

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: P291242

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4614.0 lumens
Efficiency: N/A
Efficacy: 121.0 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

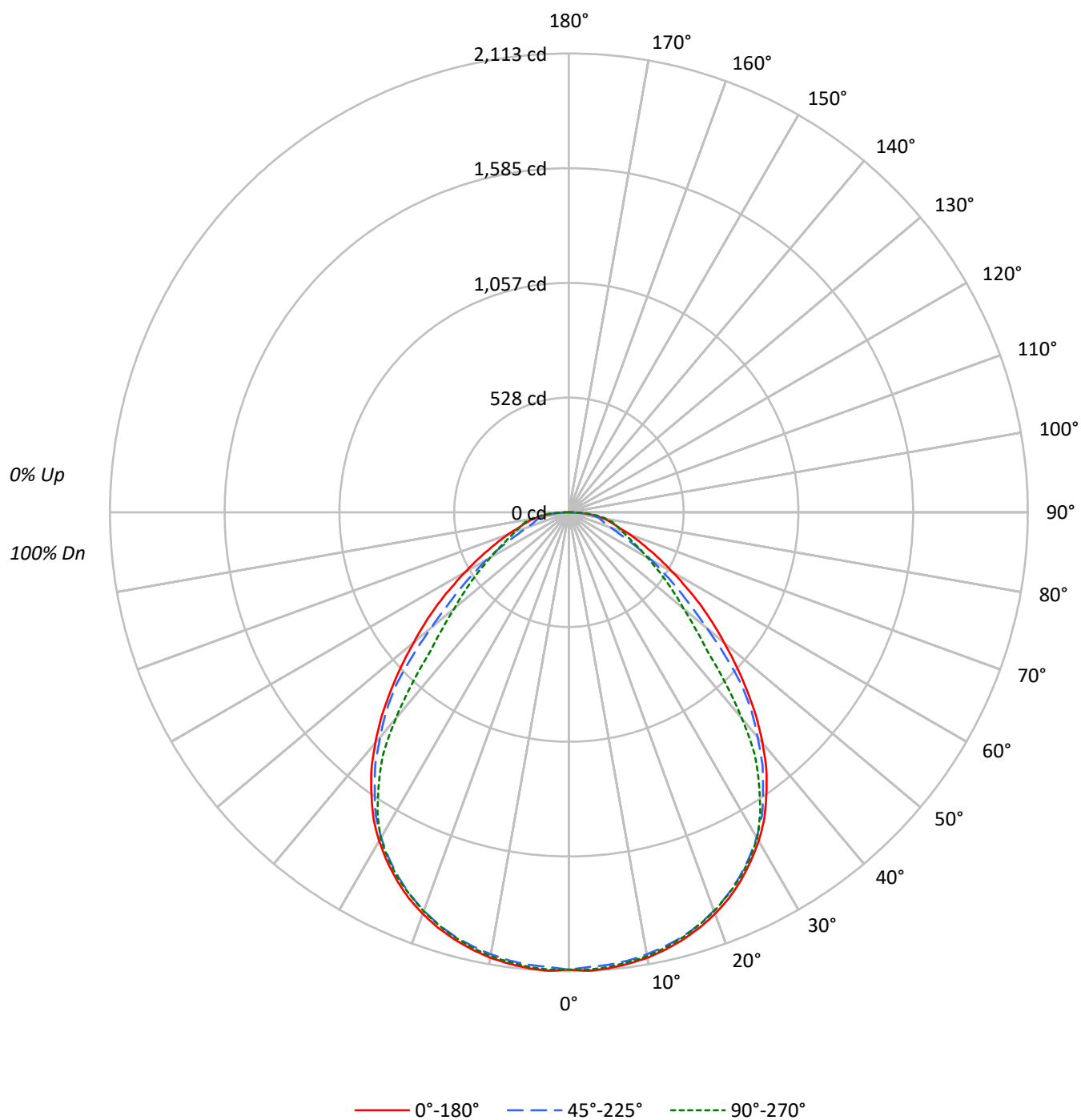
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5666	5666	5666
5°	5693	5650	5676
10°	5692	5648	5671
15°	5672	5636	5645
20°	5634	5591	5597
25°	5559	5508	5524
30°	5432	5372	5385
35°	5208	5120	5011
40°	4869	4749	4358
45°	4408	4281	3418
50°	3899	3464	2882
55°	3450	2847	2541
60°	2978	2356	2252
65°	2590	1875	2072
70°	2341	1608	2072
75°	2248	1680	2314
80°	2504	2140	2704
85°	2643	2282	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.7	4.3
10°-20°	572.4	12.4
20°-30°	856.6	18.6
30°-40°	969.6	21.0
40°-50°	825.9	17.9
50°-60°	559.2	12.1
60°-70°	333.9	7.2
70°-80°	208.6	4.5
80°-90°	88.2	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°	1628.6	35.3
0°-40°	2598.3	56.3
0°-60°	3983.4	86.3
0°-90°	4614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2106	2106	2106	2106	2106	
5°	2108	2102	2092	2104	2101	200
15°	2036	2028	2023	2036	2026	574
25°	1872	1867	1855	1864	1860	861
35°	1585	1576	1558	1542	1525	988
45°	1158	1161	1125	959	898	893
55°	735	695	607	542	542	658
65°	407	339	294	315	325	410
75°	216	194	162	212	223	233
85°	86	79	74	93	105	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2105.5	2105.5	2105.5	2105.5	2105.5
2.5°	2113.0	2107.7	2095.9	2109.8	2107.7
5°	2107.7	2102.3	2091.6	2104.4	2101.2
7.5°	2096.9	2091.6	2082.0	2094.8	2089.5
10°	2083.0	2076.6	2067.0	2080.9	2075.5
12.5°	2061.6	2055.2	2046.6	2060.6	2053.1
15°	2035.9	2028.4	2023.1	2035.9	2026.3
17.5°	2004.9	1998.5	1991.0	2003.8	1993.1
20°	1967.4	1962.1	1952.4	1959.9	1954.6
22.5°	1924.6	1917.1	1907.5	1916.0	1908.6
25°	1872.2	1866.8	1855.0	1863.6	1860.4
27.5°	1812.2	1809.0	1795.1	1805.8	1800.4
30°	1748.0	1739.4	1728.7	1731.9	1733.0
32.5°	1674.1	1663.4	1654.9	1647.4	1639.9
35°	1585.3	1575.7	1558.5	1542.5	1525.3
37.5°	1493.2	1480.4	1463.3	1427.9	1406.5
40°	1386.2	1379.8	1351.9	1302.7	1240.6
42.5°	1277.0	1270.6	1246.0	1135.7	1068.3
45°	1158.2	1161.4	1125.0	959.1	898.1
47.5°	1044.7	1053.3	974.1	818.9	786.8
50°	931.3	940.9	827.4	707.5	688.3
52.5°	831.7	824.2	705.4	620.8	612.3
55°	735.4	694.7	606.9	541.6	541.6
57.5°	636.9	579.1	515.9	474.2	474.2
60°	553.4	481.7	437.8	410.0	418.5
62.5°	476.3	400.3	362.9	357.5	368.2
65°	406.8	339.3	294.4	314.7	325.4
67.5°	350.0	290.1	241.9	284.7	291.2
70°	297.6	252.6	204.4	262.3	263.3
72.5°	249.4	222.6	175.5	237.6	241.9
75°	216.2	193.7	161.6	211.9	222.6
77.5°	189.5	165.9	148.8	183.0	203.4
80°	161.6	135.9	138.1	154.1	174.5
82.5°	124.2	104.9	109.2	126.3	142.4
85°	85.6	79.2	73.9	93.1	104.9
87.5°	46.0	42.8	37.5	52.5	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)