

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: P291236

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291236
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4310.9 lumens
Efficiency: N/A
Efficacy: 117.4 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

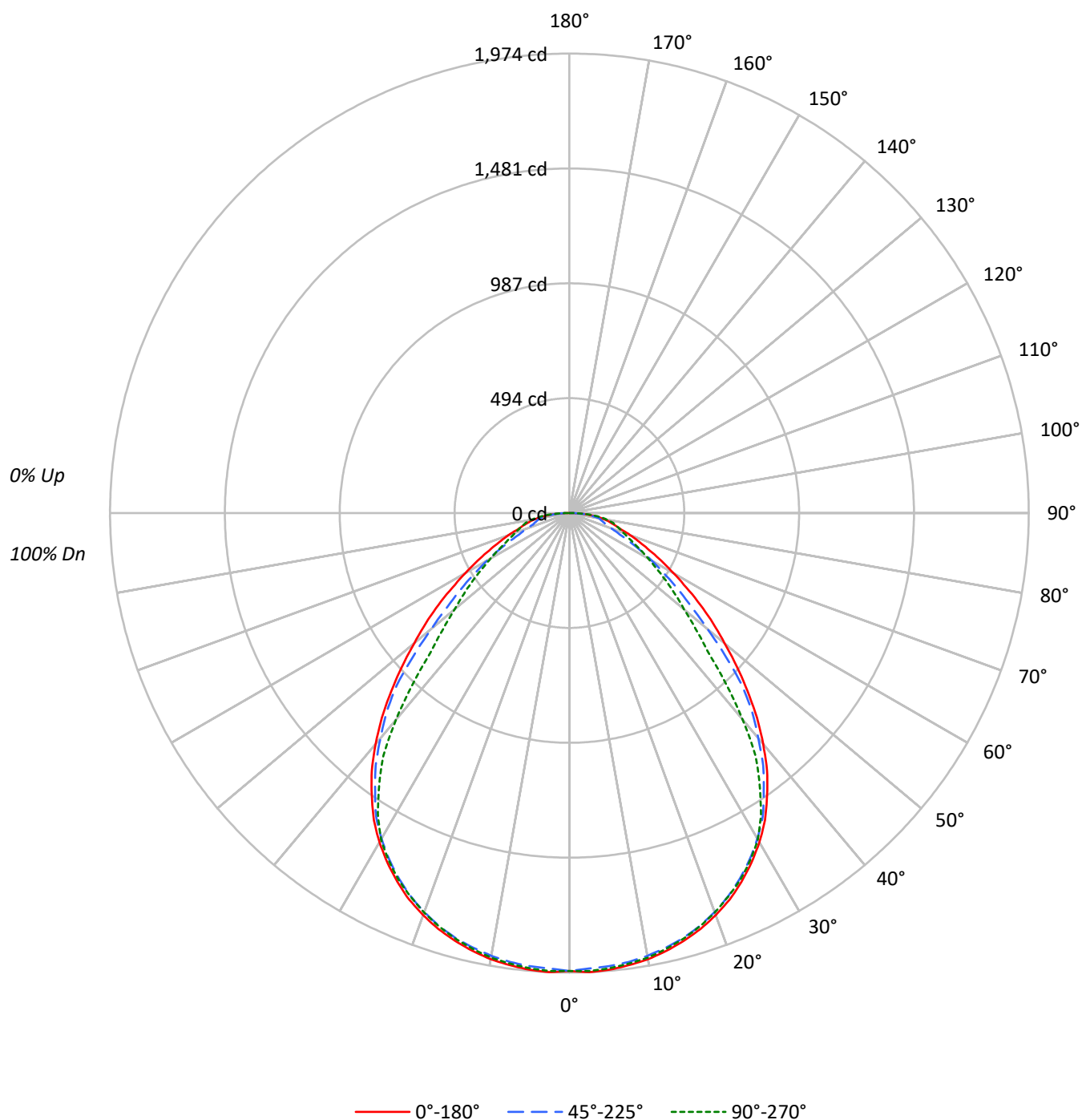
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291236

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291236

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K

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°	5294	5294	5294
5°	5319	5279	5303
10°	5318	5277	5299
15°	5299	5266	5274
20°	5264	5224	5230
25°	5194	5146	5161
30°	5075	5019	5031
35°	4866	4784	4682
40°	4550	4437	4072
45°	4118	4000	3193
50°	3643	3237	2692
55°	3224	2661	2374
60°	2783	2202	2104
65°	2420	1751	1936
70°	2187	1503	1936
75°	2100	1570	2163
80°	2340	1999	2526
85°	2470	2130	3026



TEST NUMBER: P291236

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	4.3
10°-20°	534.8	12.4
20°-30°	800.3	18.6
30°-40°	906.0	21.0
40°-50°	771.7	17.9
50°-60°	522.5	12.1
60°-70°	311.9	7.2
70°-80°	194.9	4.5
80°-90°	82.4	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°	1521.7	35.3
0°-40°	2427.6	56.3
0°-60°	3721.8	86.3
0°-90°	4310.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4310.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1969	1964	1954	1966	1963	187
15°	1902	1895	1890	1902	1893	537
25°	1749	1744	1733	1741	1738	804
35°	1481	1472	1456	1441	1425	923
45°	1082	1085	1051	896	839	835
55°	687	649	567	506	506	614
65°	380	317	275	294	304	383
75°	202	181	151	198	208	218
85°	80	74	69	87	98	86
90°	0	0	0	0	0	



TEST NUMBER: P291236

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1967.2	1967.2	1967.2	1967.2	1967.2
2.5°	1974.2	1969.2	1958.2	1971.2	1969.2
5°	1969.2	1964.2	1954.2	1966.2	1963.2
7.5°	1959.2	1954.2	1945.2	1957.2	1952.2
10°	1946.2	1940.2	1931.2	1944.2	1939.2
12.5°	1926.2	1920.2	1912.2	1925.2	1918.2
15°	1902.2	1895.2	1890.2	1902.2	1893.2
17.5°	1873.2	1867.2	1860.2	1872.2	1862.2
20°	1838.2	1833.2	1824.2	1831.2	1826.2
22.5°	1798.2	1791.2	1782.2	1790.2	1783.2
25°	1749.2	1744.2	1733.2	1741.2	1738.2
27.5°	1693.2	1690.2	1677.2	1687.2	1682.2
30°	1633.2	1625.2	1615.2	1618.2	1619.2
32.5°	1564.2	1554.2	1546.2	1539.2	1532.2
35°	1481.2	1472.2	1456.2	1441.2	1425.2
37.5°	1395.2	1383.2	1367.2	1334.2	1314.2
40°	1295.2	1289.2	1263.2	1217.2	1159.1
42.5°	1193.1	1187.1	1164.1	1061.1	998.1
45°	1082.1	1085.1	1051.1	896.1	839.1
47.5°	976.1	984.1	910.1	765.1	735.1
50°	870.1	879.1	773.1	661.1	643.1
52.5°	777.1	770.1	659.1	580.1	572.1
55°	687.1	649.1	567.1	506.1	506.1
57.5°	595.1	541.1	482.1	443.1	443.1
60°	517.1	450.1	409.1	383.0	391.0
62.5°	445.1	374.0	339.0	334.0	344.0
65°	380.0	317.0	275.0	294.0	304.0
67.5°	327.0	271.0	226.0	266.0	272.0
70°	278.0	236.0	191.0	245.0	246.0
72.5°	233.0	208.0	164.0	222.0	226.0
75°	202.0	181.0	151.0	198.0	208.0
77.5°	177.0	155.0	139.0	171.0	190.0
80°	151.0	127.0	129.0	144.0	163.0
82.5°	116.0	98.0	102.0	118.0	133.0
85°	80.0	74.0	69.0	87.0	98.0
87.5°	43.0	40.0	35.0	49.0	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)