

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: P291275

Luminaire Tested: **14GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291275
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 108.1 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

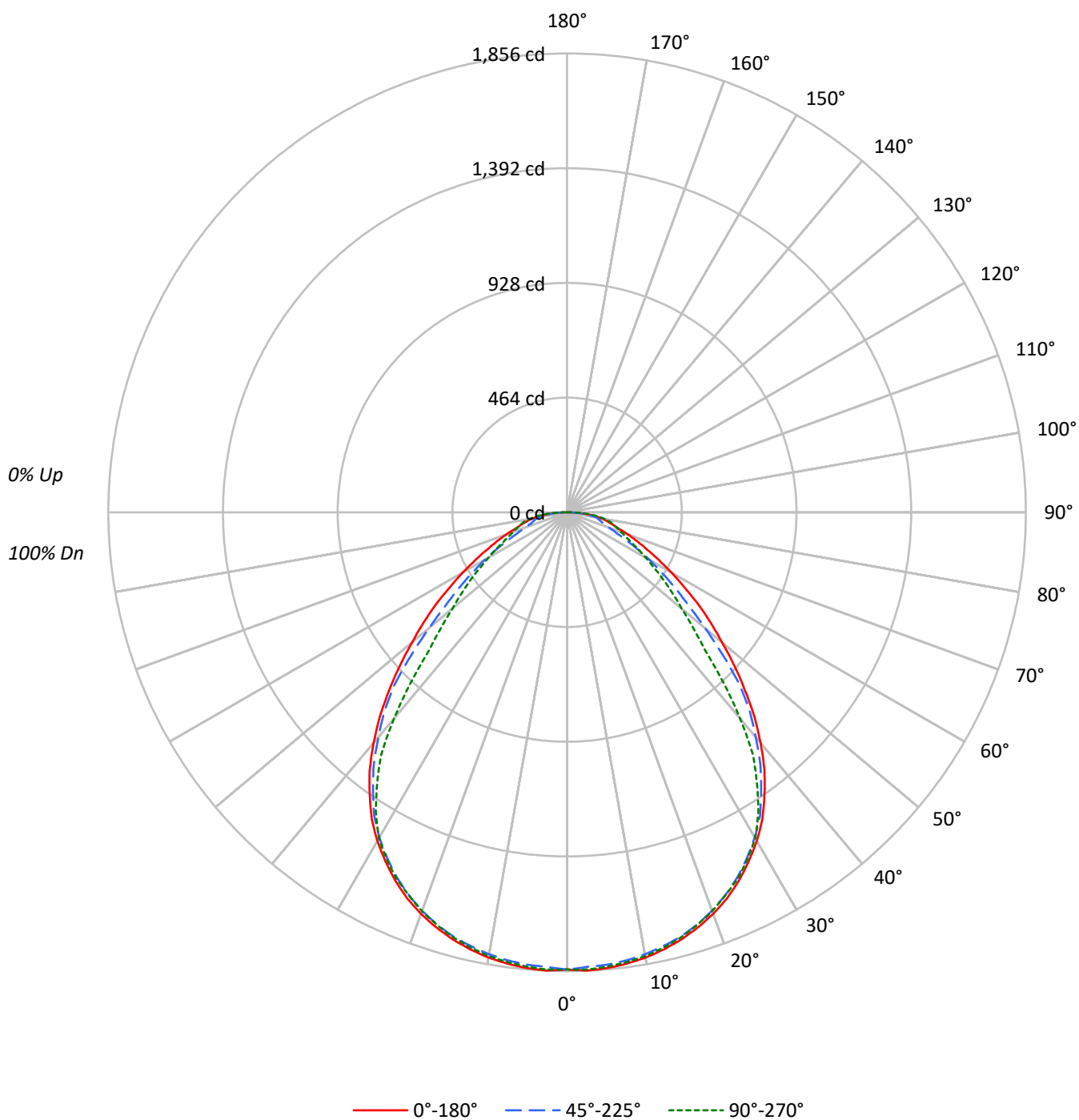
Input Watts (W): 37.479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291275

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P291275

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K

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	0			
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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4976	4976	4976
5°	5000	4962	4985
10°	4999	4960	4981
15°	4981	4950	4958
20°	4948	4910	4916
25°	4882	4837	4851
30°	4770	4717	4729
35°	4573	4496	4401
40°	4276	4171	3827
45°	3871	3760	3001
50°	3424	3042	2530
55°	3030	2501	2232
60°	2616	2069	1978
65°	2274	1646	1820
70°	2056	1412	1819
75°	1974	1475	2033
80°	2199	1880	2374
85°	2322	2004	2844



TEST NUMBER: P291275

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	4.3
10°-20°	502.6	12.4
20°-30°	752.2	18.6
30°-40°	851.5	21.0
40°-50°	725.3	17.9
50°-60°	491.1	12.1
60°-70°	293.2	7.2
70°-80°	183.2	4.5
80°-90°	77.4	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°	1430.3	35.3
0°-40°	2281.8	56.3
0°-60°	3498.2	86.3
0°-90°	4052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1849	1849	1849	1849	1849	
5°	1851	1846	1837	1848	1845	176
15°	1788	1781	1777	1788	1780	504
25°	1644	1639	1629	1637	1634	756
35°	1392	1384	1369	1355	1340	868
45°	1017	1020	988	842	789	784
55°	646	610	533	476	476	577
65°	357	298	258	276	286	360
75°	190	170	142	186	196	205
85°	75	70	65	82	92	80
90°	0	0	0	0	0	



TEST NUMBER: P291275

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1849.1	1849.1	1849.1	1849.1	1849.1
2.5°	1855.6	1850.9	1840.6	1852.8	1850.9
5°	1850.9	1846.2	1836.8	1848.1	1845.3
7.5°	1841.5	1836.8	1828.4	1839.7	1835.0
10°	1829.3	1823.7	1815.2	1827.4	1822.7
12.5°	1810.5	1804.9	1797.4	1809.6	1803.0
15°	1788.0	1781.4	1776.7	1788.0	1779.5
17.5°	1760.7	1755.1	1748.5	1759.8	1750.4
20°	1727.8	1723.1	1714.6	1721.2	1716.5
22.5°	1690.2	1683.6	1675.1	1682.7	1676.1
25°	1644.1	1639.4	1629.1	1636.6	1633.8
27.5°	1591.5	1588.7	1576.4	1585.8	1581.1
30°	1535.1	1527.6	1518.2	1521.0	1521.9
32.5°	1470.2	1460.8	1453.3	1446.7	1440.1
35°	1392.2	1383.7	1368.7	1354.6	1339.6
37.5°	1311.4	1300.1	1285.0	1254.0	1235.2
40°	1217.3	1211.7	1187.3	1144.0	1089.5
42.5°	1121.5	1115.8	1094.2	997.4	938.2
45°	1017.1	1019.9	988.0	842.3	788.7
47.5°	917.5	925.0	855.4	719.1	690.9
50°	817.8	826.3	726.6	621.4	604.4
52.5°	730.4	723.8	619.5	545.2	537.7
55°	645.8	610.1	533.0	475.7	475.7
57.5°	559.3	508.6	453.1	416.4	416.4
60°	486.0	423.0	384.5	360.0	367.6
62.5°	418.3	351.6	318.7	314.0	323.4
65°	357.2	298.0	258.5	276.4	285.8
67.5°	307.4	254.8	212.4	250.1	255.7
70°	261.3	221.8	179.5	230.3	231.2
72.5°	219.0	195.5	154.2	208.7	212.4
75°	189.9	170.1	141.9	186.1	195.5
77.5°	166.4	145.7	130.7	160.7	178.6
80°	141.9	119.4	121.3	135.4	153.2
82.5°	109.0	92.1	95.9	110.9	125.0
85°	75.2	69.6	64.9	81.8	92.1
87.5°	40.4	37.6	32.9	46.1	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)