

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: P291277

Luminaire Tested: **14GR-LD5-43-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291277
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 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

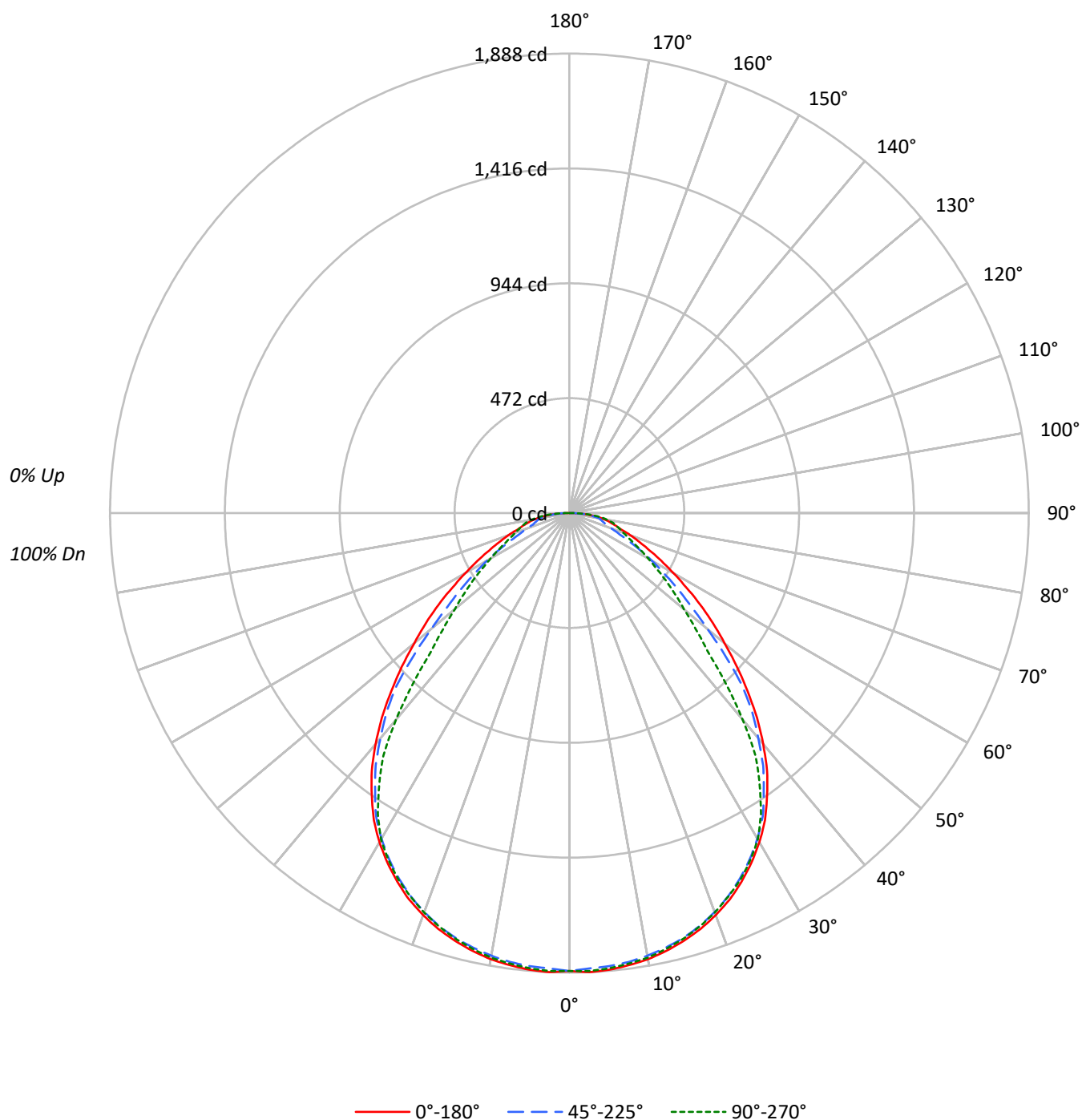
Input Watts (W): 38.13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5063	5063	5063
5°	5088	5049	5072
10°	5086	5047	5068
15°	5068	5036	5044
20°	5035	4996	5002
25°	4967	4922	4936
30°	4854	4800	4812
35°	4654	4575	4478
40°	4351	4244	3894
45°	3938	3826	3054
50°	3484	3095	2575
55°	3083	2544	2271
60°	2661	2105	2013
65°	2315	1675	1852
70°	2092	1437	1851
75°	2009	1501	2069
80°	2238	1912	2416
85°	2362	2038	2893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	4.3
10°-20°	511.4	12.4
20°-30°	765.4	18.6
30°-40°	866.4	21.0
40°-50°	738.0	17.9
50°-60°	499.7	12.1
60°-70°	298.3	7.2
70°-80°	186.4	4.5
80°-90°	78.8	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°	1455.3	35.3
0°-40°	2321.8	56.3
0°-60°	3559.5	86.3
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1882	1882	1882	1882	1882	
5°	1883	1879	1869	1880	1878	179
15°	1819	1813	1808	1819	1811	513
25°	1673	1668	1658	1665	1662	769
35°	1417	1408	1393	1378	1363	883
45°	1035	1038	1005	857	802	798
55°	657	621	542	484	484	588
65°	364	303	263	281	291	366
75°	193	173	144	189	199	209
85°	76	71	66	83	94	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1881.5	1881.5	1881.5	1881.5	1881.5
2.5°	1888.2	1883.4	1872.8	1885.3	1883.4
5°	1883.4	1878.6	1869.0	1880.5	1877.6
7.5°	1873.8	1869.0	1860.4	1871.9	1867.1
10°	1861.4	1855.6	1847.0	1859.5	1854.7
12.5°	1842.2	1836.5	1828.8	1841.3	1834.6
15°	1819.3	1812.6	1807.8	1819.3	1810.7
17.5°	1791.5	1785.8	1779.1	1790.6	1781.0
20°	1758.1	1753.3	1744.7	1751.4	1746.6
22.5°	1719.8	1713.1	1704.5	1712.2	1705.5
25°	1672.9	1668.2	1657.6	1665.3	1662.4
27.5°	1619.4	1616.5	1604.1	1613.6	1608.8
30°	1562.0	1554.3	1544.8	1547.6	1548.6
32.5°	1496.0	1486.4	1478.8	1472.1	1465.4
35°	1416.6	1408.0	1392.7	1378.3	1363.0
37.5°	1334.3	1322.9	1307.5	1276.0	1256.9
40°	1238.7	1232.9	1208.1	1164.1	1108.6
42.5°	1141.1	1135.4	1113.4	1014.9	954.6
45°	1034.9	1037.8	1005.3	857.0	802.5
47.5°	933.6	941.2	870.4	731.7	703.0
50°	832.2	840.8	739.4	632.3	615.0
52.5°	743.2	736.5	630.3	554.8	547.1
55°	657.1	620.8	542.3	484.0	484.0
57.5°	569.1	517.5	461.0	423.7	423.7
60°	494.5	430.4	391.2	366.3	374.0
62.5°	425.6	357.7	324.3	319.5	329.0
65°	363.5	303.2	263.0	281.2	290.8
67.5°	312.8	259.2	216.2	254.4	260.2
70°	265.9	225.7	182.7	234.3	235.3
72.5°	222.9	199.0	156.9	212.3	216.2
75°	193.2	173.1	144.4	189.4	199.0
77.5°	169.3	148.3	133.0	163.6	181.7
80°	144.4	121.5	123.4	137.7	155.9
82.5°	111.0	93.7	97.6	112.9	127.2
85°	76.5	70.8	66.0	83.2	93.7
87.5°	41.1	38.3	33.5	46.9	47.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)