

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: P291336

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291336
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

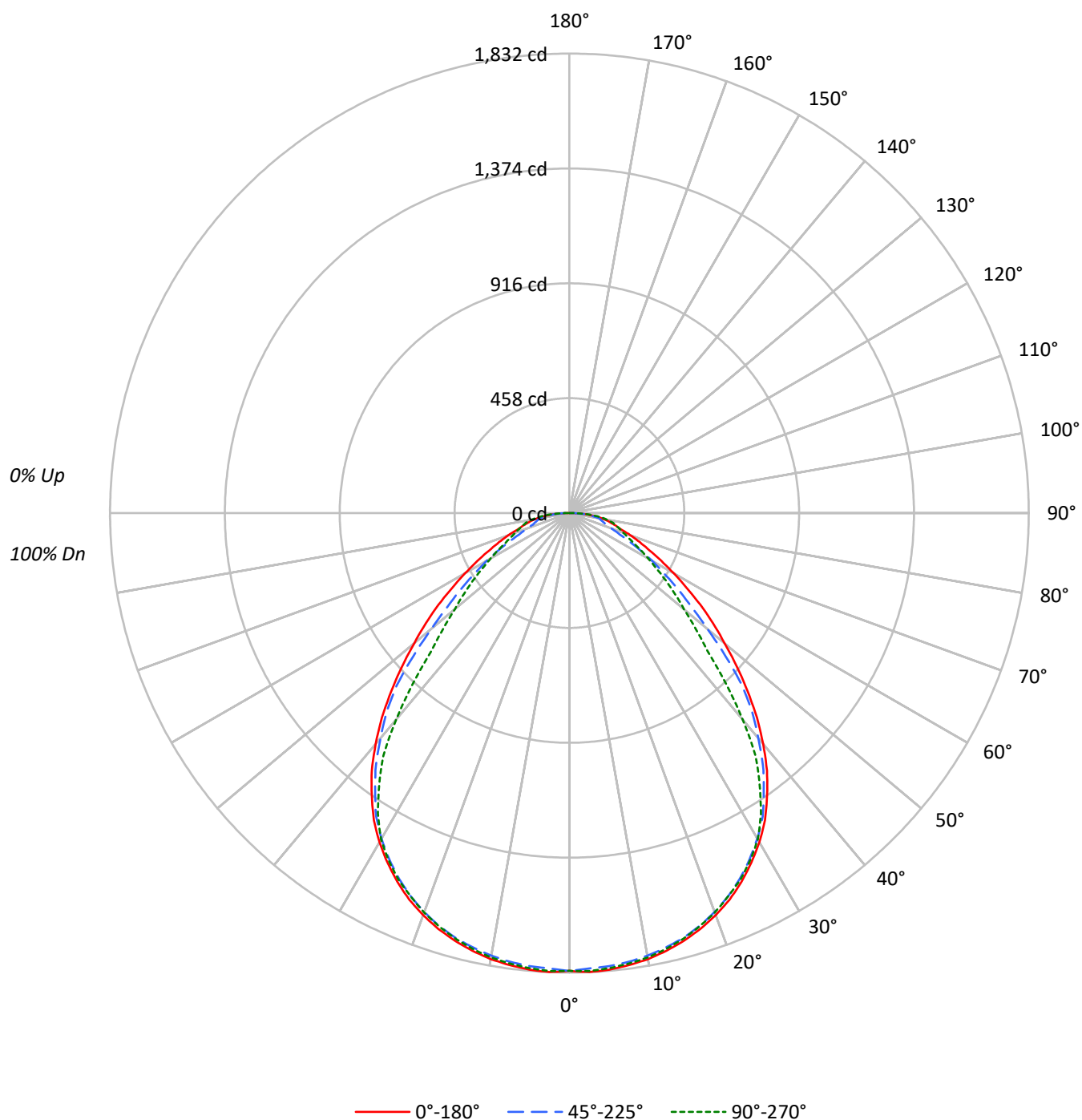
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	4912	4912	4912
5°	4936	4898	4921
10°	4934	4896	4917
15°	4917	4886	4894
20°	4884	4847	4853
25°	4819	4775	4789
30°	4709	4657	4668
35°	4515	4438	4344
40°	4221	4117	3778
45°	3821	3712	2963
50°	3380	3003	2498
55°	2991	2469	2203
60°	2582	2042	1953
65°	2245	1625	1796
70°	2030	1394	1796
75°	1949	1457	2007
80°	2171	1855	2345
85°	2291	1976	2807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	4.3
10°-20°	496.2	12.4
20°-30°	742.6	18.6
30°-40°	840.6	21.0
40°-50°	716.0	17.9
50°-60°	484.8	12.1
60°-70°	289.4	7.2
70°-80°	180.8	4.5
80°-90°	76.4	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°	1411.9	35.3
0°-40°	2252.5	56.3
0°-60°	3453.3	86.3
0°-90°	4000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1827	1822	1813	1824	1822	174
15°	1765	1758	1754	1765	1757	498
25°	1623	1618	1608	1616	1613	746
35°	1374	1366	1351	1337	1322	857
45°	1004	1007	975	832	779	774
55°	638	602	526	470	470	570
65°	353	294	255	273	282	355
75°	188	168	140	184	193	202
85°	74	69	64	81	91	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1825.3	1825.3	1825.3	1825.3	1825.3
2.5°	1831.8	1827.2	1817.0	1829.0	1827.2
5°	1827.2	1822.5	1813.3	1824.4	1821.6
7.5°	1817.9	1813.3	1804.9	1816.0	1811.4
10°	1805.8	1800.3	1791.9	1804.0	1799.3
12.5°	1787.3	1781.7	1774.3	1786.4	1779.9
15°	1765.0	1758.5	1753.9	1765.0	1756.7
17.5°	1738.1	1732.5	1726.0	1737.2	1727.9
20°	1705.6	1701.0	1692.6	1699.1	1694.5
22.5°	1668.5	1662.0	1653.7	1661.1	1654.6
25°	1623.0	1618.4	1608.2	1615.6	1612.8
27.5°	1571.1	1568.3	1556.2	1565.5	1560.9
30°	1515.4	1508.0	1498.7	1501.5	1502.4
32.5°	1451.4	1442.1	1434.6	1428.2	1421.7
35°	1374.3	1366.0	1351.1	1337.2	1322.4
37.5°	1294.5	1283.4	1268.5	1237.9	1219.4
40°	1201.7	1196.2	1172.0	1129.3	1075.5
42.5°	1107.1	1101.5	1080.2	984.6	926.1
45°	1004.1	1006.9	975.3	831.5	778.6
47.5°	905.7	913.1	844.5	709.9	682.1
50°	807.3	815.7	717.3	613.4	596.7
52.5°	721.0	714.5	611.5	538.2	530.8
55°	637.5	602.3	526.2	469.6	469.6
57.5°	552.1	502.0	447.3	411.1	411.1
60°	479.8	417.6	379.5	355.4	362.8
62.5°	412.9	347.1	314.6	309.9	319.2
65°	352.6	294.2	255.2	272.8	282.1
67.5°	303.4	251.5	209.7	246.8	252.4
70°	258.0	219.0	177.2	227.4	228.3
72.5°	216.2	193.0	152.2	206.0	209.7
75°	187.5	168.0	140.1	183.7	193.0
77.5°	164.3	143.8	129.0	158.7	176.3
80°	140.1	117.9	119.7	133.6	151.3
82.5°	107.6	90.9	94.7	109.5	123.4
85°	74.2	68.7	64.0	80.7	90.9
87.5°	39.9	37.1	32.5	45.5	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)