

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: P291273

Luminaire Tested: **14GR-LD5-43-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291273
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3434.0 lumens
Efficiency: N/A
Efficacy: 91.9 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

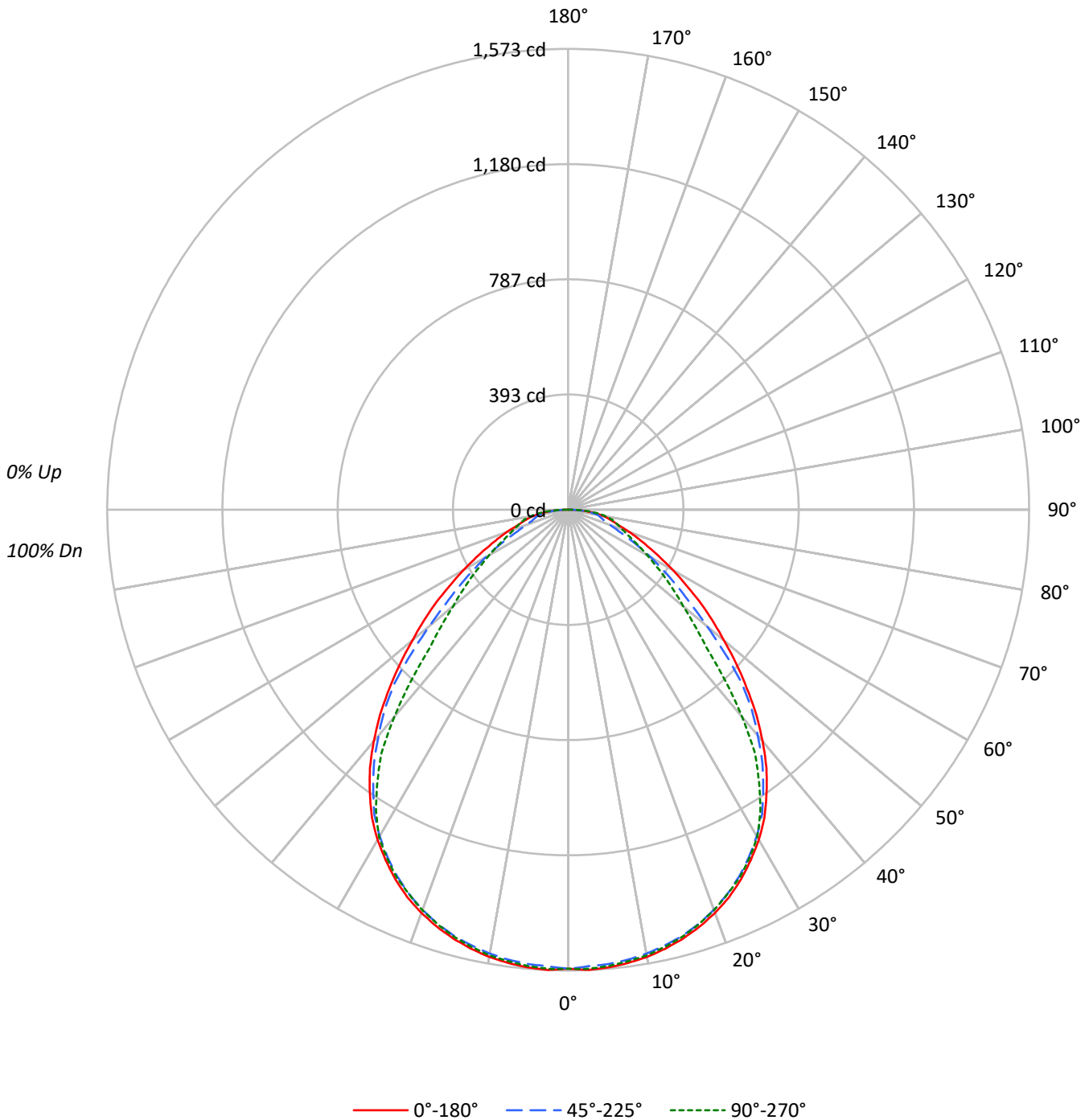
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4217	4217	4217
5°	4237	4205	4224
10°	4236	4204	4221
15°	4221	4195	4201
20°	4193	4161	4166
25°	4137	4099	4111
30°	4043	3998	4008
35°	3876	3810	3729
40°	3624	3535	3243
45°	3280	3186	2544
50°	2902	2578	2145
55°	2568	2119	1891
60°	2217	1753	1676
65°	1927	1395	1542
70°	1743	1197	1542
75°	1673	1251	1723
80°	1864	1593	2013
85°	1967	1698	2411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	4.3
10°-20°	426.0	12.4
20°-30°	637.5	18.6
30°-40°	721.6	21.0
40°-50°	614.7	17.9
50°-60°	416.2	12.1
60°-70°	248.5	7.2
70°-80°	155.2	4.5
80°-90°	65.6	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°	1212.1	35.3
0°-40°	1933.8	56.3
0°-60°	2964.6	86.3
0°-90°	3434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1569	1565	1557	1566	1564	149
15°	1515	1510	1506	1515	1508	427
25°	1393	1389	1381	1387	1385	641
35°	1180	1173	1160	1148	1135	735
45°	862	864	837	714	668	665
55°	547	517	452	403	403	489
65°	303	252	219	234	242	305
75°	161	144	120	158	166	174
85°	64	59	55	69	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.0	1567.0	1567.0	1567.0	1567.0
2.5°	1572.6	1568.6	1559.9	1570.2	1568.6
5°	1568.6	1564.7	1556.7	1566.2	1563.9
7.5°	1560.7	1556.7	1549.5	1559.1	1555.1
10°	1550.3	1545.5	1538.4	1548.7	1544.7
12.5°	1534.4	1529.6	1523.2	1533.6	1528.0
15°	1515.3	1509.7	1505.7	1515.3	1508.1
17.5°	1492.2	1487.4	1481.8	1491.4	1483.4
20°	1464.3	1460.3	1453.1	1458.7	1454.7
22.5°	1432.4	1426.8	1419.7	1426.0	1420.5
25°	1393.4	1389.4	1380.6	1387.0	1384.6
27.5°	1348.8	1346.4	1336.0	1344.0	1340.0
30°	1301.0	1294.6	1286.6	1289.0	1289.8
32.5°	1246.0	1238.0	1231.6	1226.1	1220.5
35°	1179.9	1172.7	1159.9	1148.0	1135.2
37.5°	1111.3	1101.8	1089.0	1062.8	1046.8
40°	1031.7	1026.9	1006.2	969.5	923.3
42.5°	950.4	945.6	927.3	845.3	795.1
45°	862.0	864.4	837.3	713.8	668.4
47.5°	777.5	783.9	725.0	609.4	585.5
50°	693.1	700.3	615.8	526.6	512.3
52.5°	619.0	613.4	525.0	462.1	455.7
55°	547.3	517.0	451.7	403.1	403.1
57.5°	474.0	431.0	384.0	352.9	352.9
60°	411.9	358.5	325.8	305.1	311.5
62.5°	354.5	298.0	270.1	266.1	274.1
65°	302.7	252.5	219.1	234.2	242.2
67.5°	260.5	215.9	180.0	211.9	216.7
70°	221.5	188.0	152.2	195.2	196.0
72.5°	185.6	165.7	130.7	176.9	180.0
75°	160.9	144.2	120.3	157.7	165.7
77.5°	141.0	123.5	110.7	136.2	151.4
80°	120.3	101.2	102.8	114.7	129.9
82.5°	92.4	78.1	81.3	94.0	106.0
85°	63.7	59.0	55.0	69.3	78.1
87.5°	34.3	31.9	27.9	39.0	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)