

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: P291334

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291334
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3777.0 lumens
Efficiency: N/A
Efficacy: 103.1 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

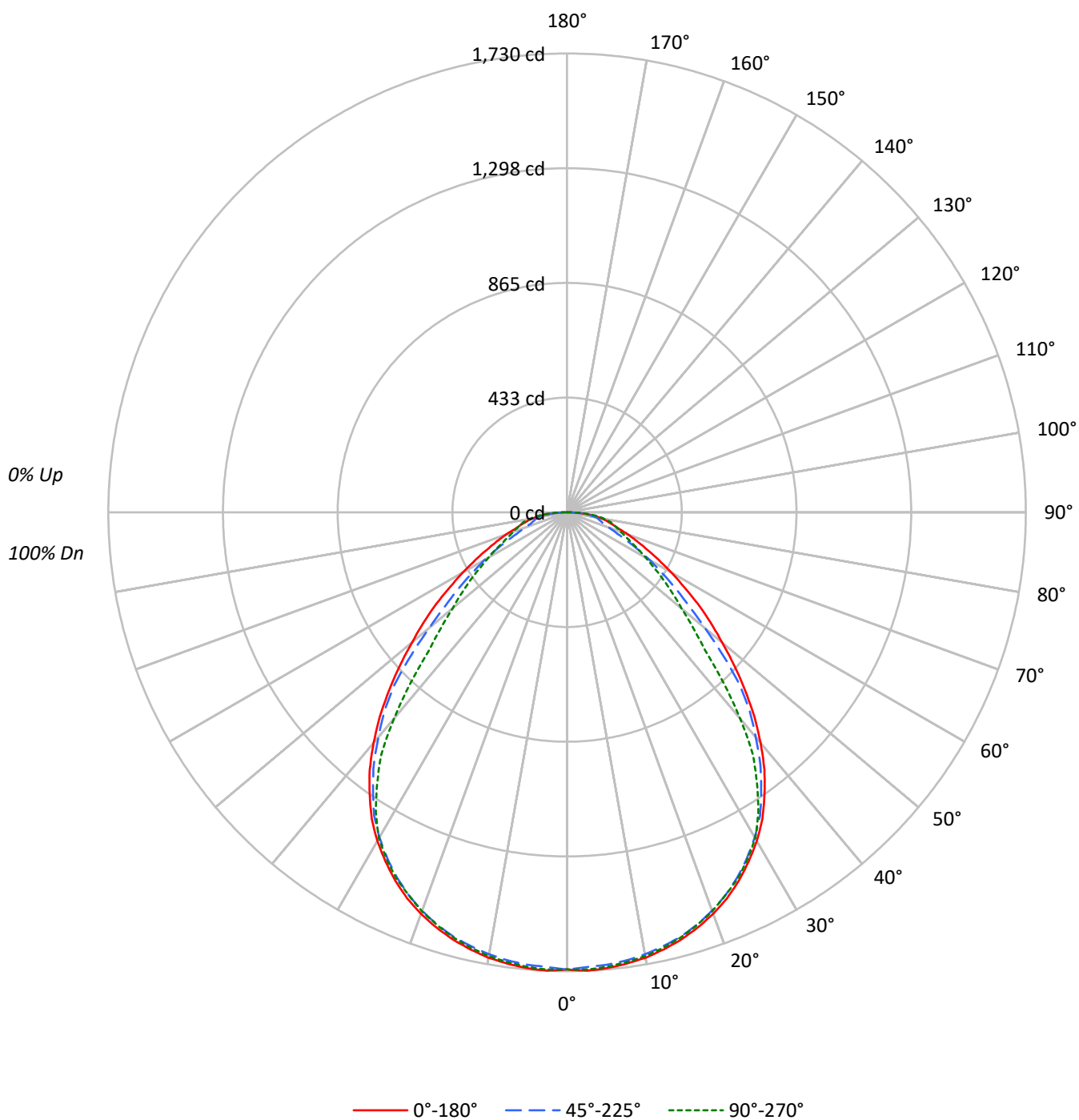
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4638	4638	4638
5°	4660	4625	4646
10°	4659	4623	4643
15°	4643	4614	4621
20°	4612	4577	4582
25°	4550	4509	4522
30°	4446	4397	4408
35°	4263	4191	4102
40°	3986	3888	3568
45°	3608	3505	2798
50°	3191	2835	2359
55°	2824	2331	2080
60°	2438	1929	1844
65°	2120	1535	1696
70°	1917	1317	1696
75°	1840	1376	1895
80°	2050	1751	2213
85°	2164	1868	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.5	4.3
10°-20°	468.5	12.4
20°-30°	701.2	18.6
30°-40°	793.7	21.0
40°-50°	676.1	17.9
50°-60°	457.8	12.1
60°-70°	273.3	7.2
70°-80°	170.7	4.5
80°-90°	72.2	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°	1333.2	35.3
0°-40°	2126.9	56.3
0°-60°	3260.8	86.3
0°-90°	3777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1725	1721	1712	1723	1720	164
15°	1667	1660	1656	1667	1659	470
25°	1532	1528	1518	1526	1523	705
35°	1298	1290	1276	1263	1249	809
45°	948	951	921	785	735	731
55°	602	569	497	443	443	538
65°	333	278	241	258	266	336
75°	177	159	132	174	182	191
85°	70	65	60	76	86	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1723.6	1723.6	1723.6	1723.6	1723.6
2.5°	1729.7	1725.3	1715.7	1727.1	1725.3
5°	1725.3	1720.9	1712.2	1722.7	1720.1
7.5°	1716.6	1712.2	1704.3	1714.8	1710.4
10°	1705.2	1699.9	1692.0	1703.4	1699.0
12.5°	1687.6	1682.4	1675.4	1686.8	1680.6
15°	1666.6	1660.5	1656.1	1666.6	1658.7
17.5°	1641.2	1635.9	1629.8	1640.3	1631.6
20°	1610.5	1606.1	1598.3	1604.4	1600.0
22.5°	1575.5	1569.3	1561.5	1568.5	1562.3
25°	1532.5	1528.2	1518.5	1525.5	1522.9
27.5°	1483.5	1480.8	1469.5	1478.2	1473.8
30°	1430.9	1423.9	1415.1	1417.8	1418.6
32.5°	1370.4	1361.7	1354.7	1348.5	1342.4
35°	1297.7	1289.8	1275.8	1262.7	1248.6
37.5°	1222.4	1211.8	1197.8	1168.9	1151.4
40°	1134.7	1129.5	1106.7	1066.4	1015.6
42.5°	1045.4	1040.1	1019.9	929.7	874.5
45°	948.1	950.7	920.9	785.1	735.2
47.5°	855.2	862.2	797.4	670.3	644.0
50°	762.3	770.2	677.3	579.2	563.4
52.5°	680.8	674.7	577.4	508.2	501.2
55°	602.0	568.7	496.8	443.4	443.4
57.5°	521.4	474.0	422.3	388.2	388.2
60°	453.0	394.3	358.4	335.6	342.6
62.5°	389.9	327.7	297.0	292.7	301.4
65°	333.0	277.8	241.0	257.6	266.4
67.5°	286.5	237.5	198.0	233.1	238.3
70°	243.6	206.8	167.4	214.7	215.6
72.5°	204.2	182.3	143.7	194.5	198.0
75°	177.0	158.6	132.3	173.5	182.3
77.5°	155.1	135.8	121.8	149.8	166.5
80°	132.3	111.3	113.0	126.2	142.8
82.5°	101.6	85.9	89.4	103.4	116.5
85°	70.1	64.8	60.5	76.2	85.9
87.5°	37.7	35.0	30.7	42.9	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)