

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: P291325

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291325
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-LD5-40-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: 3540.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

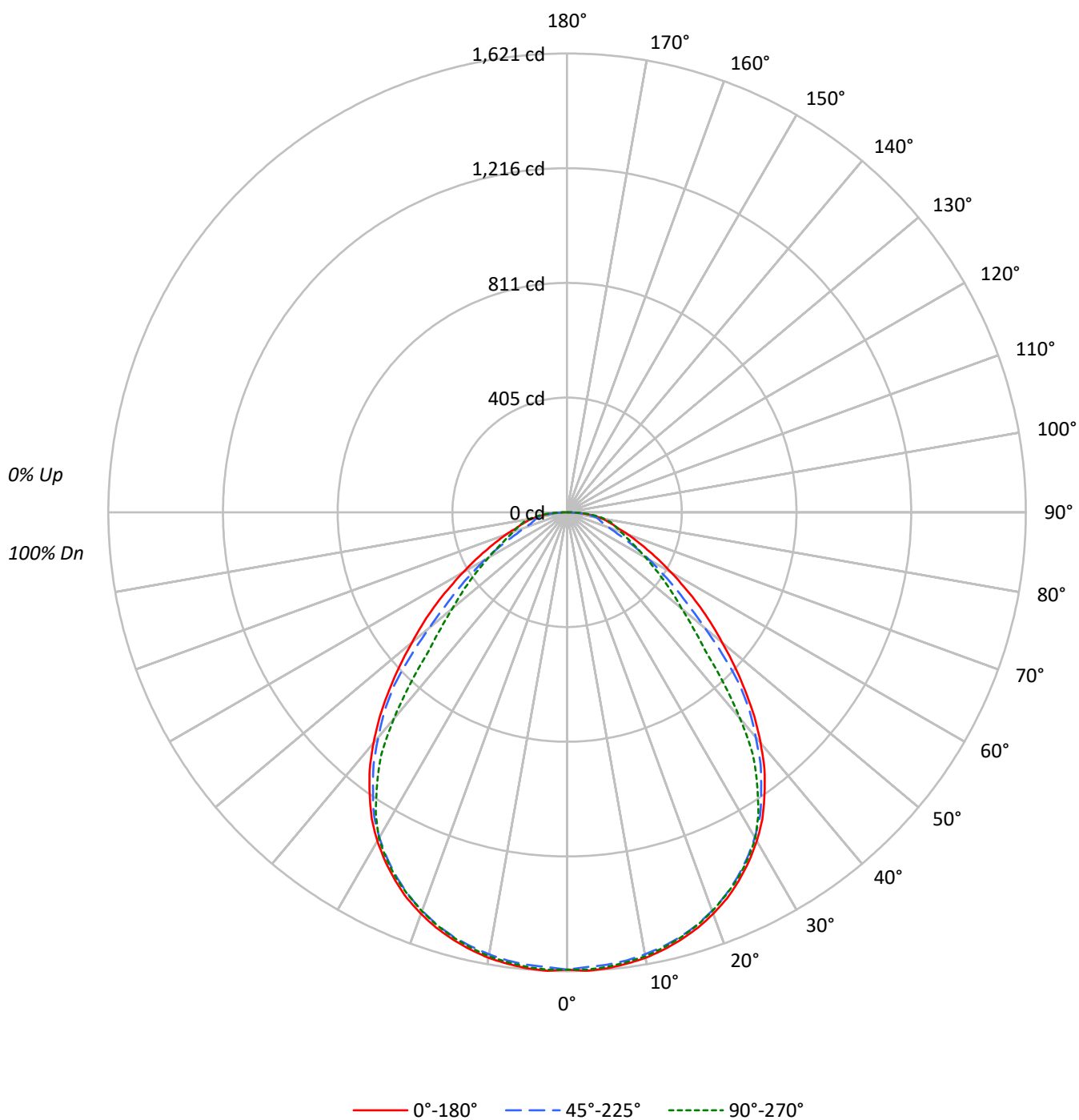
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	4347	4347	4347
5°	4368	4335	4355
10°	4367	4333	4351
15°	4352	4324	4331
20°	4323	4290	4294
25°	4265	4226	4238
30°	4167	4121	4131
35°	3996	3928	3845
40°	3736	3644	3344
45°	3382	3285	2622
50°	2991	2658	2211
55°	2647	2185	1950
60°	2285	1808	1728
65°	1987	1438	1590
70°	1796	1234	1589
75°	1725	1289	1776
80°	1922	1641	2075
85°	2029	1751	2485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	4.3
10°-20°	439.1	12.4
20°-30°	657.2	18.6
30°-40°	743.9	21.0
40°-50°	633.7	17.9
50°-60°	429.0	12.1
60°-70°	256.2	7.2
70°-80°	160.0	4.5
80°-90°	67.6	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°	1249.5	35.3
0°-40°	1993.5	56.3
0°-60°	3056.2	86.3
0°-90°	3540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1615	1615	1615	1615	1615	
5°	1617	1613	1605	1615	1612	154
15°	1562	1556	1552	1562	1555	441
25°	1436	1432	1423	1430	1427	661
35°	1216	1209	1196	1183	1170	758
45°	889	891	863	736	689	685
55°	564	533	466	416	416	504
65°	312	260	226	241	250	315
75°	166	149	124	163	171	179
85°	66	61	57	71	80	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.4	1615.4	1615.4	1615.4	1615.4
2.5°	1621.2	1617.1	1608.0	1618.7	1617.1
5°	1617.1	1612.9	1604.7	1614.6	1612.1
7.5°	1608.8	1604.7	1597.3	1607.2	1603.1
10°	1598.2	1593.2	1585.8	1596.5	1592.4
12.5°	1581.7	1576.8	1570.2	1580.9	1575.2
15°	1562.0	1556.3	1552.2	1562.0	1554.6
17.5°	1538.2	1533.3	1527.5	1537.4	1529.2
20°	1509.5	1505.4	1498.0	1503.7	1499.6
22.5°	1476.6	1470.9	1463.5	1470.1	1464.3
25°	1436.4	1432.3	1423.2	1429.8	1427.3
27.5°	1390.4	1387.9	1377.2	1385.5	1381.4
30°	1341.1	1334.5	1326.3	1328.8	1329.6
32.5°	1284.4	1276.2	1269.7	1263.9	1258.2
35°	1216.3	1208.9	1195.8	1183.4	1170.3
37.5°	1145.7	1135.8	1122.7	1095.6	1079.1
40°	1063.5	1058.6	1037.2	999.5	951.8
42.5°	979.8	974.8	955.9	871.4	819.6
45°	888.6	891.1	863.1	735.8	689.0
47.5°	801.5	808.1	747.3	628.3	603.6
50°	714.5	721.9	634.8	542.9	528.1
52.5°	638.1	632.4	541.2	476.3	469.8
55°	564.2	533.0	465.7	415.6	415.6
57.5°	488.6	444.3	395.8	363.8	363.8
60°	424.6	369.6	335.9	314.5	321.1
62.5°	365.5	307.2	278.4	274.3	282.5
65°	312.1	260.3	225.8	241.4	249.7
67.5°	268.6	222.6	185.6	218.5	223.4
70°	228.3	193.8	156.9	201.2	202.0
72.5°	191.4	170.8	134.7	182.3	185.6
75°	165.9	148.6	124.0	162.6	170.8
77.5°	145.4	127.3	114.2	140.4	156.0
80°	124.0	104.3	105.9	118.3	133.9
82.5°	95.3	80.5	83.8	96.9	109.2
85°	65.7	60.8	56.7	71.4	80.5
87.5°	35.3	32.9	28.7	40.2	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)