

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: P291326

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291326
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

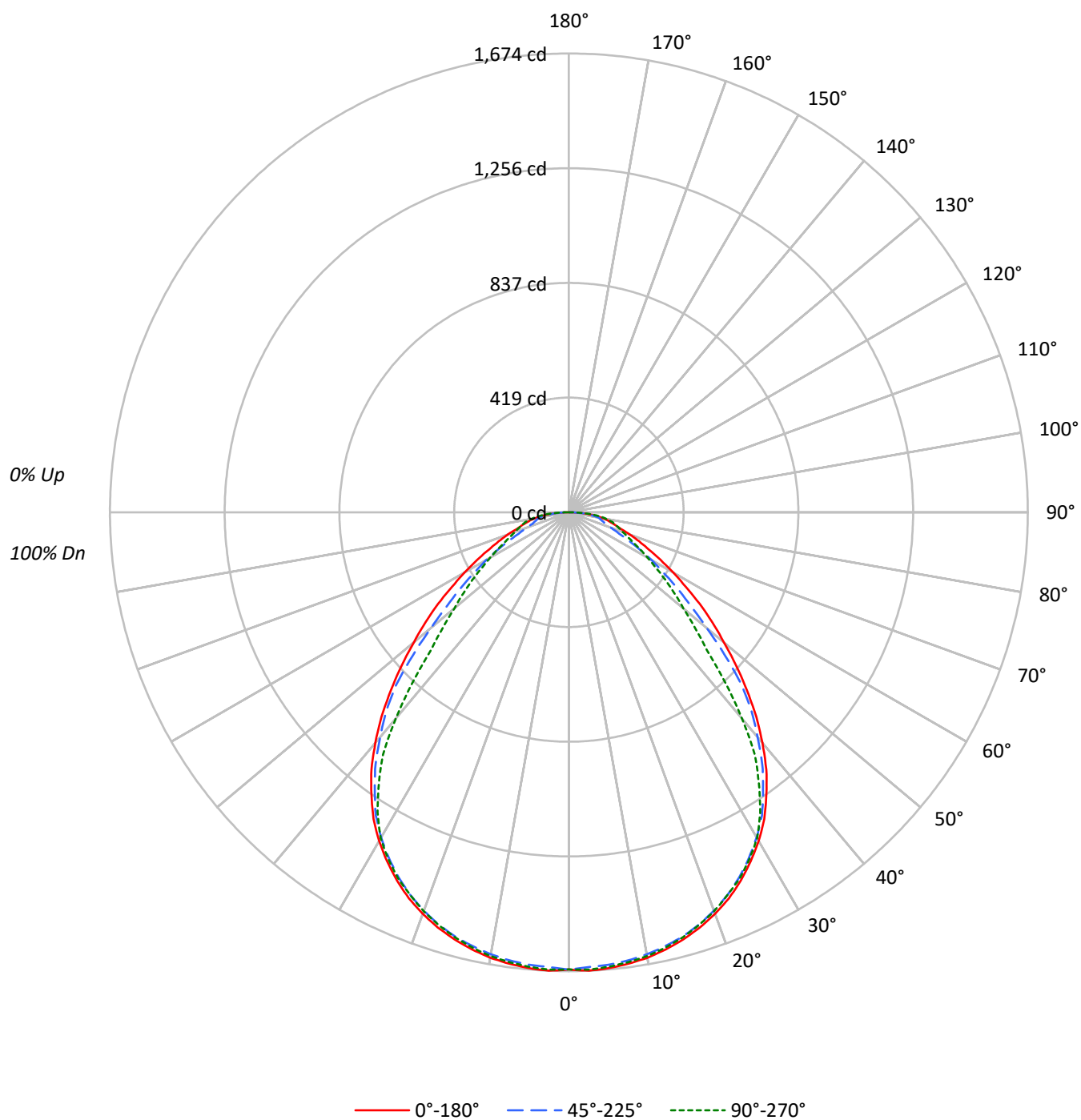
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4488	4488	4488
5°	4510	4476	4496
10°	4509	4474	4492
15°	4493	4465	4472
20°	4463	4429	4434
25°	4403	4363	4376
30°	4303	4255	4266
35°	4125	4056	3969
40°	3857	3762	3452
45°	3492	3392	2707
50°	3088	2744	2282
55°	2733	2256	2013
60°	2359	1866	1784
65°	2052	1485	1642
70°	1854	1275	1641
75°	1781	1331	1834
80°	1984	1695	2142
85°	2093	1806	2566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	4.3
10°-20°	453.4	12.4
20°-30°	678.5	18.6
30°-40°	768.1	21.0
40°-50°	654.3	17.9
50°-60°	443.0	12.1
60°-70°	264.5	7.2
70°-80°	165.2	4.5
80°-90°	69.8	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°	1290.1	35.3
0°-40°	2058.2	56.3
0°-60°	3155.5	86.3
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1670	1665	1657	1667	1664	159
15°	1613	1607	1603	1613	1605	455
25°	1483	1479	1470	1476	1474	682
35°	1256	1248	1235	1222	1208	783
45°	918	920	891	760	711	708
55°	582	550	481	429	429	521
65°	322	269	233	249	258	325
75°	171	154	128	168	176	185
85°	68	63	58	74	83	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1667.9	1667.9	1667.9	1667.9	1667.9
2.5°	1673.8	1669.6	1660.3	1671.3	1669.6
5°	1669.6	1665.3	1656.9	1667.0	1664.5
7.5°	1661.1	1656.9	1649.2	1659.4	1655.2
10°	1650.1	1645.0	1637.4	1648.4	1644.1
12.5°	1633.1	1628.0	1621.3	1632.3	1626.3
15°	1612.8	1606.8	1602.6	1612.8	1605.1
17.5°	1588.2	1583.1	1577.2	1587.3	1578.9
20°	1558.5	1554.3	1546.6	1552.6	1548.3
22.5°	1524.6	1518.7	1511.0	1517.8	1511.9
25°	1483.0	1478.8	1469.5	1476.3	1473.7
27.5°	1435.6	1433.0	1422.0	1430.5	1426.2
30°	1384.7	1377.9	1369.4	1372.0	1372.8
32.5°	1326.2	1317.7	1310.9	1305.0	1299.0
35°	1255.8	1248.2	1234.6	1221.9	1208.3
37.5°	1182.9	1172.7	1159.1	1131.1	1114.2
40°	1098.1	1093.0	1070.9	1031.9	982.8
42.5°	1011.6	1006.5	987.0	899.7	846.2
45°	917.5	920.0	891.2	759.8	711.4
47.5°	827.6	834.4	771.6	648.7	623.2
50°	737.7	745.3	655.5	560.5	545.2
52.5°	658.8	652.9	558.8	491.8	485.0
55°	582.5	550.3	480.8	429.1	429.1
57.5°	504.5	458.7	408.7	375.6	375.6
60°	438.4	381.6	346.8	324.8	331.5
62.5°	377.3	317.1	287.5	283.2	291.7
65°	322.2	268.8	233.2	249.3	257.8
67.5°	277.3	229.8	191.6	225.6	230.6
70°	235.7	200.1	162.0	207.7	208.6
72.5°	197.6	176.4	139.1	188.2	191.6
75°	171.3	153.5	128.0	167.9	176.4
77.5°	150.1	131.4	117.9	145.0	161.1
80°	128.0	107.7	109.4	122.1	138.2
82.5°	98.4	83.1	86.5	100.1	112.8
85°	67.8	62.7	58.5	73.8	83.1
87.5°	36.5	33.9	29.7	41.5	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)