

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: P291130

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3651.0 lumens
Efficiency: N/A
Efficacy: 107.3 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

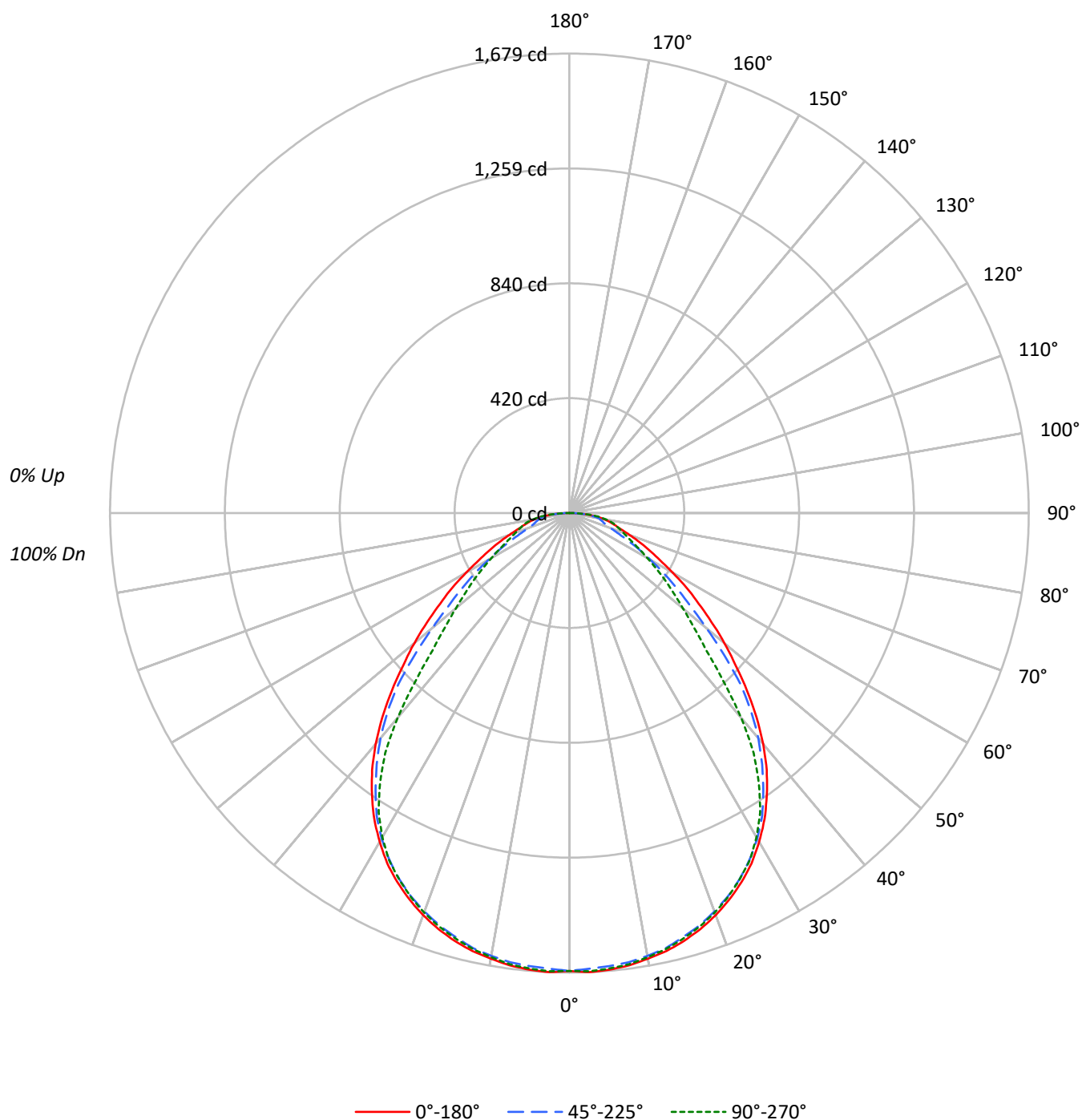
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10			
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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4502	4502	4502
5°	4524	4489	4512
10°	4518	4491	4502
15°	4510	4470	4484
20°	4478	4436	4449
25°	4419	4376	4378
30°	4311	4266	4247
35°	4134	4059	3967
40°	3869	3771	3432
45°	3495	3363	2682
50°	3099	2730	2269
55°	2705	2240	2001
60°	2346	1844	1766
65°	2057	1479	1631
70°	1835	1254	1641
75°	1789	1323	1834
80°	1984	1669	2103
85°	2069	1782	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	4.3
10°-20°	454.7	12.5
20°-30°	680.2	18.6
30°-40°	767.9	21.0
40°-50°	651.4	17.8
50°-60°	440.8	12.1
60°-70°	263.1	7.2
70°-80°	164.8	4.5
80°-90°	69.3	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°	1293.7	35.4
0°-40°	2061.6	56.5
0°-60°	3153.8	86.4
0°-90°	3651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1675	1670	1662	1674	1670	159
15°	1619	1615	1604	1615	1610	456
25°	1488	1483	1474	1481	1475	684
35°	1258	1250	1236	1224	1208	784
45°	918	922	884	757	705	708
55°	577	550	477	427	426	519
65°	323	268	232	248	256	323
75°	172	154	127	168	176	185
85°	67	64	58	75	80	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.0	1673.0	1673.0	1673.0	1673.0
2.5°	1679.0	1673.9	1666.3	1676.4	1675.6
5°	1674.7	1669.7	1662.0	1673.9	1670.5
7.5°	1667.1	1662.9	1655.2	1666.3	1662.9
10°	1653.5	1650.2	1643.4	1652.7	1647.6
12.5°	1639.1	1636.6	1628.1	1636.6	1631.5
15°	1618.8	1615.4	1604.4	1615.4	1609.5
17.5°	1593.3	1589.1	1579.8	1589.1	1584.0
20°	1563.7	1558.6	1549.2	1558.6	1553.5
22.5°	1528.0	1523.8	1515.3	1523.8	1517.0
25°	1488.2	1483.1	1473.8	1480.6	1474.6
27.5°	1442.4	1435.6	1427.1	1432.2	1428.8
30°	1387.3	1378.8	1372.9	1372.9	1366.9
32.5°	1327.1	1321.1	1311.0	1305.0	1297.4
35°	1258.4	1249.9	1235.5	1224.5	1207.5
37.5°	1184.6	1174.4	1156.6	1128.7	1105.8
40°	1101.5	1088.8	1073.5	1018.4	976.9
42.5°	1012.5	1009.9	983.6	889.5	831.9
45°	918.4	921.7	883.6	757.2	704.7
47.5°	823.4	835.3	765.7	641.9	614.8
50°	740.3	744.5	652.1	557.1	541.9
52.5°	654.6	647.9	556.3	490.1	479.1
55°	576.6	549.5	477.4	427.4	426.5
57.5°	507.9	457.9	407.9	370.6	374.8
60°	435.9	379.9	342.6	322.2	328.2
62.5°	372.3	318.8	285.8	279.8	290.0
65°	323.1	268.0	232.3	247.6	256.1
67.5°	276.4	229.8	189.1	225.6	229.0
70°	233.2	199.3	159.4	207.8	208.6
72.5°	197.6	176.4	138.2	188.2	190.8
75°	172.1	153.5	127.2	167.9	176.4
77.5°	150.9	131.4	117.9	145.0	159.4
80°	128.0	106.0	107.7	121.3	135.7
82.5°	98.4	82.3	85.6	100.1	110.2
85°	67.0	63.6	57.7	74.6	79.7
87.5°	35.6	33.9	29.7	42.4	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)