

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: P291131

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291131
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3746.0 lumens
Efficiency: N/A
Efficacy: 109.2 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

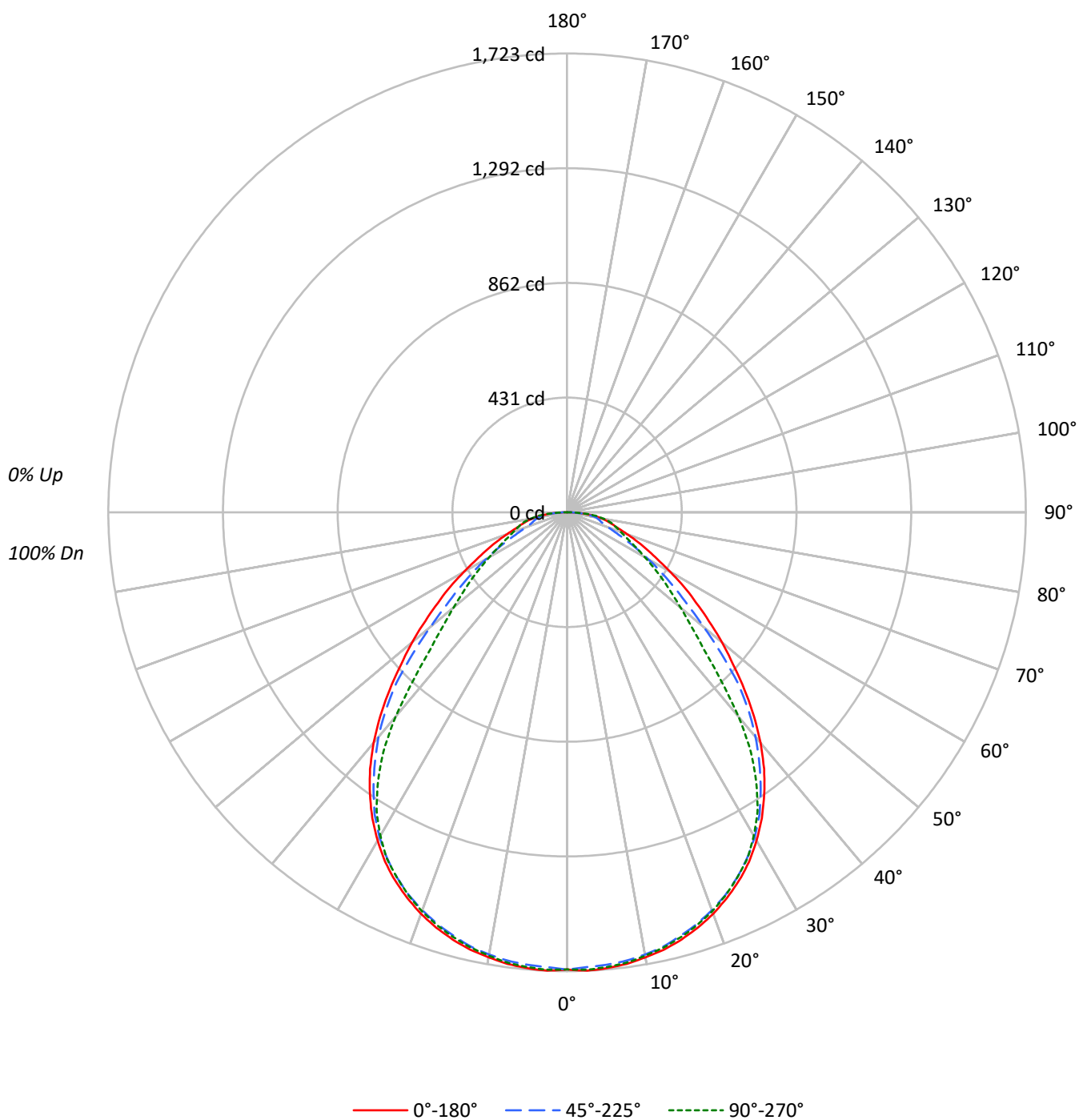
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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	73	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°	4619	4619	4619
5°	4642	4606	4630
10°	4636	4607	4619
15°	4627	4586	4600
20°	4594	4552	4564
25°	4534	4490	4492
30°	4423	4377	4358
35°	4241	4164	4070
40°	3970	3869	3521
45°	3586	3450	2751
50°	3180	2801	2328
55°	2776	2298	2053
60°	2407	1892	1812
65°	2111	1518	1673
70°	1883	1287	1684
75°	1836	1357	1882
80°	2036	1712	2157
85°	2121	1828	2526



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.9	4.3
10°-20°	466.6	12.5
20°-30°	698.0	18.6
30°-40°	787.9	21.0
40°-50°	668.4	17.8
50°-60°	452.2	12.1
60°-70°	269.9	7.2
70°-80°	169.1	4.5
80°-90°	71.1	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°	1327.4	35.4
0°-40°	2115.3	56.5
0°-60°	3235.9	86.4
0°-90°	3746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1717	1717	1717	1717	1717	
5°	1718	1713	1705	1718	1714	163
15°	1661	1657	1646	1657	1651	468
25°	1527	1522	1512	1519	1513	702
35°	1291	1282	1268	1256	1239	804
45°	942	946	907	777	723	726
55°	592	564	490	438	438	533
65°	332	275	238	254	263	331
75°	177	158	130	172	181	190
85°	69	65	59	77	82	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1716.6	1716.6	1716.6	1716.6	1716.6
2.5°	1722.7	1717.5	1709.6	1720.1	1719.2
5°	1718.3	1713.1	1705.3	1717.5	1714.0
7.5°	1710.5	1706.1	1698.3	1709.6	1706.1
10°	1696.6	1693.1	1686.1	1695.7	1690.5
12.5°	1681.8	1679.2	1670.5	1679.2	1674.0
15°	1660.9	1657.4	1646.1	1657.4	1651.3
17.5°	1634.8	1630.4	1620.9	1630.4	1625.2
20°	1604.3	1599.1	1589.6	1599.1	1593.9
22.5°	1567.8	1563.5	1554.8	1563.5	1556.5
25°	1526.9	1521.7	1512.1	1519.1	1513.0
27.5°	1479.9	1473.0	1464.3	1469.5	1466.0
30°	1423.4	1414.7	1408.6	1408.6	1402.5
32.5°	1361.6	1355.5	1345.1	1339.0	1331.2
35°	1291.1	1282.4	1267.6	1256.3	1238.9
37.5°	1215.4	1205.0	1186.7	1158.0	1134.5
40°	1130.2	1117.1	1101.5	1044.9	1002.3
42.5°	1038.8	1036.2	1009.2	912.7	853.5
45°	942.3	945.7	906.6	776.9	723.0
47.5°	844.8	857.0	785.6	658.6	630.8
50°	759.5	763.9	669.1	571.6	556.0
52.5°	671.7	664.7	570.7	502.9	491.6
55°	591.6	563.8	489.8	438.5	437.6
57.5°	521.2	469.8	418.5	380.2	384.6
60°	447.2	389.8	351.5	330.6	336.7
62.5°	381.9	327.1	293.2	287.1	297.6
65°	331.5	274.9	238.4	254.1	262.8
67.5°	283.6	235.8	194.0	231.4	234.9
70°	239.3	204.5	163.6	213.2	214.0
72.5°	202.7	181.0	141.8	193.1	195.8
75°	176.6	157.5	130.5	172.3	181.0
77.5°	154.9	134.9	120.9	148.8	163.6
80°	131.4	108.8	110.5	124.4	139.2
82.5°	100.9	84.4	87.9	102.7	113.1
85°	68.7	65.3	59.2	76.6	81.8
87.5°	36.5	34.8	30.5	43.5	40.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)