

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: P291132

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291132
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 111.1 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

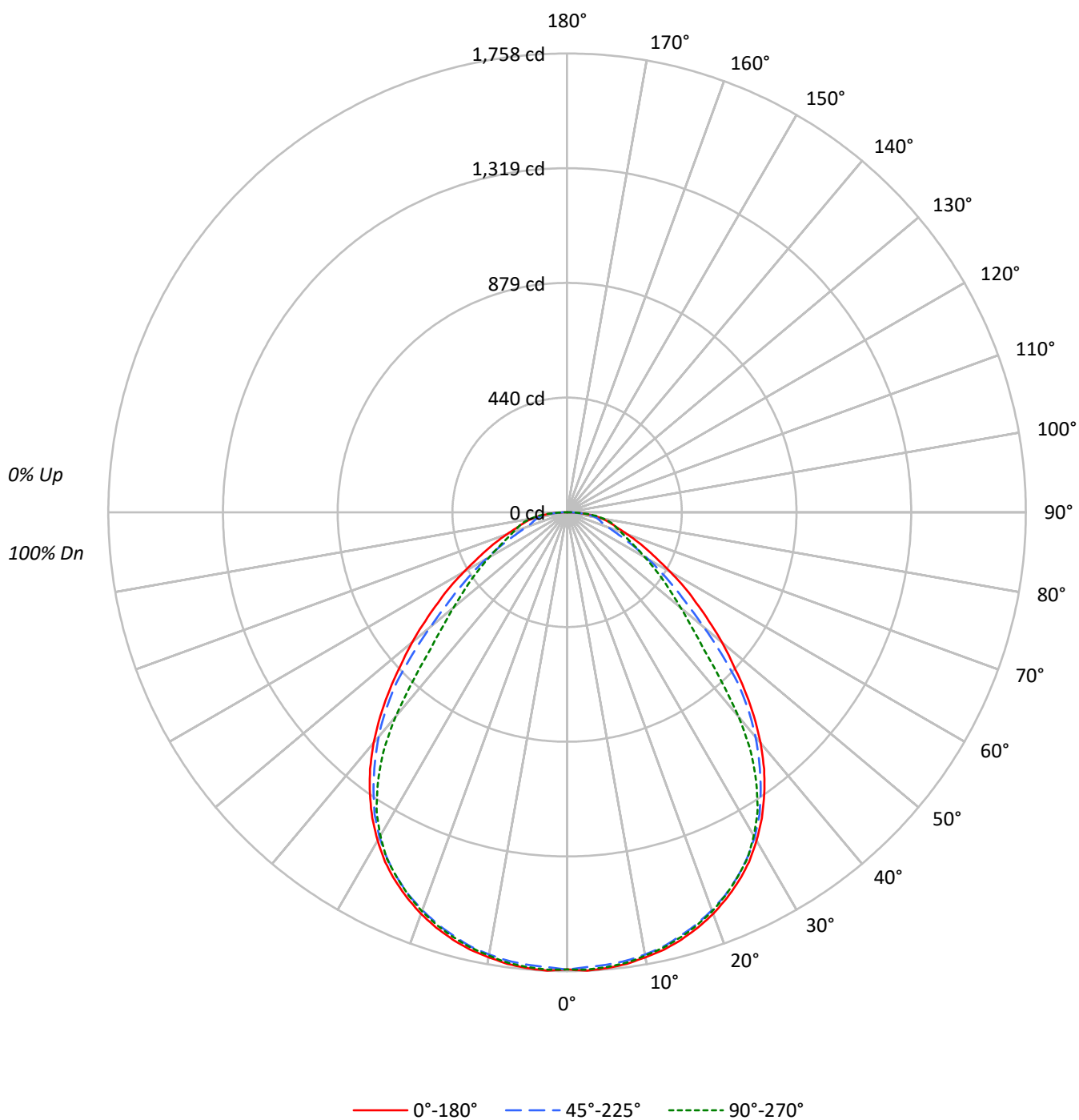
Input Watts (W): 34.41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4713	4713	4713
5°	4736	4700	4724
10°	4730	4701	4713
15°	4721	4679	4694
20°	4688	4644	4657
25°	4626	4581	4584
30°	4513	4466	4447
35°	4327	4249	4153
40°	4051	3948	3592
45°	3659	3520	2807
50°	3244	2858	2375
55°	2832	2345	2095
60°	2456	1930	1849
65°	2153	1549	1707
70°	1921	1313	1718
75°	1874	1385	1919
80°	2077	1746	2201
85°	2164	1865	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	4.3
10°-20°	476.0	12.5
20°-30°	712.1	18.6
30°-40°	803.9	21.0
40°-50°	681.9	17.8
50°-60°	461.4	12.1
60°-70°	275.4	7.2
70°-80°	172.5	4.5
80°-90°	72.6	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°	1354.3	35.4
0°-40°	2158.2	56.5
0°-60°	3301.5	86.4
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1753	1748	1740	1752	1749	167
15°	1695	1691	1680	1691	1685	478
25°	1558	1553	1543	1550	1544	716
35°	1317	1308	1293	1282	1264	821
45°	961	965	925	793	738	741
55°	604	575	500	447	446	544
65°	338	280	243	259	268	338
75°	180	161	133	176	185	194
85°	70	67	60	78	83	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1751.4	1751.4	1751.4	1751.4	1751.4
2.5°	1757.6	1752.3	1744.3	1755.0	1754.1
5°	1753.2	1747.9	1739.9	1752.3	1748.7
7.5°	1745.2	1740.8	1732.8	1744.3	1740.8
10°	1731.0	1727.4	1720.3	1730.1	1724.8
12.5°	1715.9	1713.2	1704.4	1713.2	1707.9
15°	1694.6	1691.0	1679.5	1691.0	1684.8
17.5°	1668.0	1663.5	1653.8	1663.5	1658.2
20°	1636.9	1631.6	1621.8	1631.6	1626.2
22.5°	1599.6	1595.2	1586.3	1595.2	1588.1
25°	1557.9	1552.6	1542.8	1549.9	1543.7
27.5°	1510.0	1502.9	1494.0	1499.3	1495.8
30°	1452.3	1443.4	1437.2	1437.2	1431.0
32.5°	1389.2	1383.0	1372.4	1366.2	1358.2
35°	1317.3	1308.5	1293.4	1281.8	1264.1
37.5°	1240.1	1229.4	1210.8	1181.5	1157.5
40°	1153.1	1139.8	1123.8	1066.1	1022.6
42.5°	1059.9	1057.2	1029.7	931.2	870.8
45°	961.4	964.9	925.0	792.7	737.7
47.5°	861.9	874.4	801.6	672.0	643.6
50°	775.0	779.4	682.6	583.2	567.2
52.5°	685.3	678.2	582.3	513.1	501.5
55°	603.6	575.2	499.8	447.4	446.5
57.5°	531.7	479.4	427.0	387.9	392.4
60°	456.3	397.7	358.6	337.3	343.5
62.5°	389.7	333.8	299.2	292.9	303.6
65°	338.2	280.5	243.2	259.2	268.1
67.5°	289.4	240.6	198.0	236.1	239.7
70°	244.1	208.6	166.9	217.5	218.4
72.5°	206.8	184.6	144.7	197.1	199.7
75°	180.2	160.7	133.2	175.8	184.6
77.5°	158.0	137.6	123.4	151.8	166.9
80°	134.0	111.0	112.7	126.9	142.0
82.5°	103.0	86.1	89.7	104.7	115.4
85°	70.1	66.6	60.4	78.1	83.4
87.5°	37.3	35.5	31.1	44.4	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)