

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: P291030

Luminaire Tested: **14GR-LD5-40-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291030
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3903.0 lumens
Efficiency: N/A
Efficacy: 116.9 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

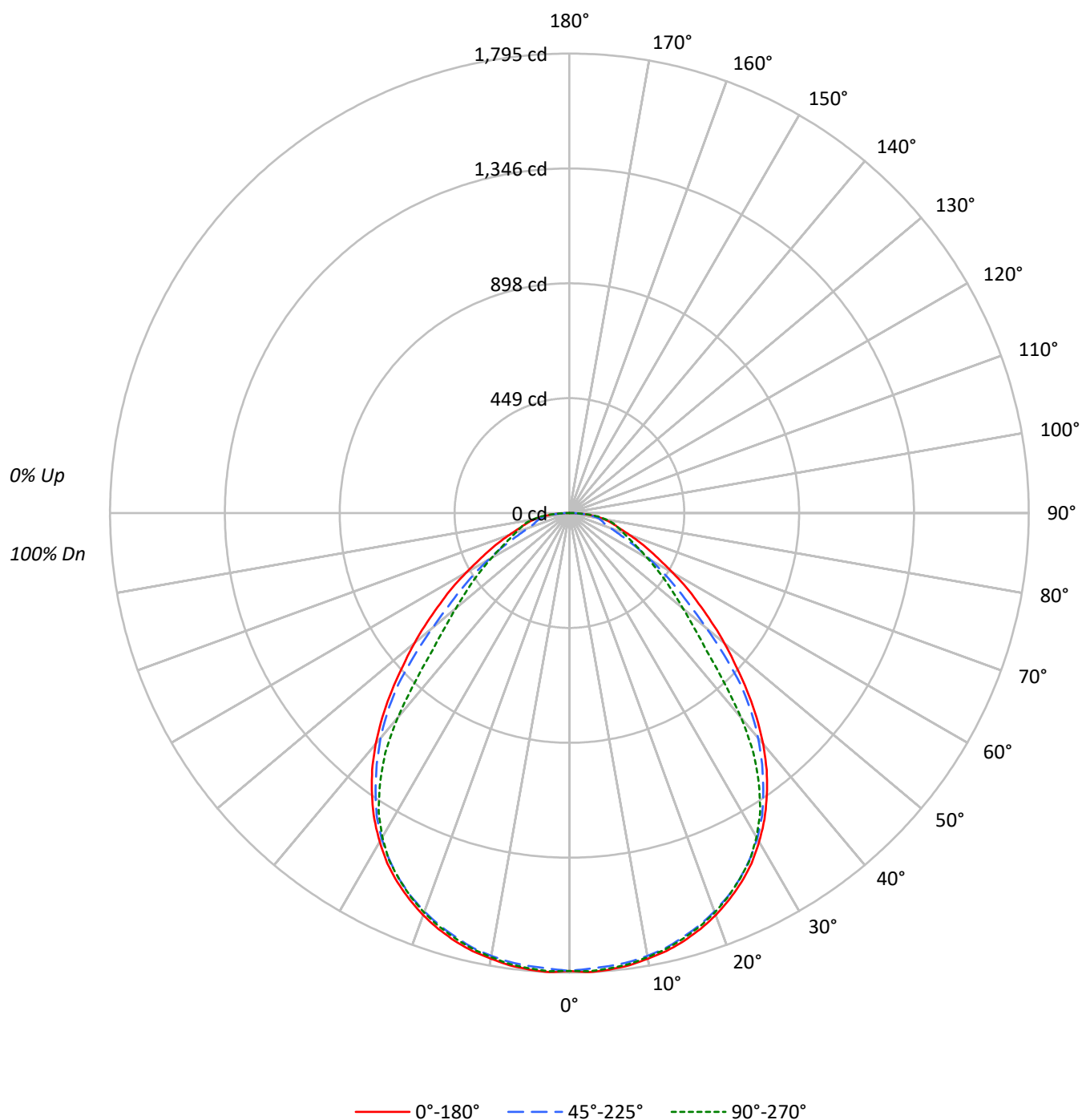
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4813	4813	4813
5°	4836	4799	4824
10°	4830	4800	4813
15°	4821	4778	4793
20°	4787	4743	4756
25°	4724	4678	4681
30°	4608	4560	4541
35°	4419	4339	4241
40°	4136	4031	3668
45°	3736	3595	2867
50°	3313	2918	2425
55°	2892	2395	2139
60°	2507	1971	1888
65°	2199	1582	1743
70°	1961	1341	1755
75°	1913	1414	1961
80°	2122	1784	2247
85°	2211	1902	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.7	4.3
10°-20°	486.1	12.5
20°-30°	727.2	18.6
30°-40°	820.9	21.0
40°-50°	696.4	17.8
50°-60°	471.2	12.1
60°-70°	281.3	7.2
70°-80°	176.1	4.5
80°-90°	74.1	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°	1383.0	35.4
0°-40°	2203.9	56.5
0°-60°	3371.5	86.4
0°-90°	3903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1788	1788	1788	1788	1788	
5°	1790	1785	1777	1789	1786	170
15°	1730	1727	1715	1727	1720	488
25°	1591	1586	1576	1583	1576	732
35°	1345	1336	1321	1309	1291	838
45°	982	985	945	810	753	756
55°	616	587	510	457	456	555
65°	345	286	248	265	274	345
75°	184	164	136	180	189	198
85°	72	68	62	80	85	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1788.5	1788.5	1788.5	1788.5	1788.5
2.5°	1794.9	1789.4	1781.3	1792.2	1791.2
5°	1790.3	1784.9	1776.7	1789.4	1785.8
7.5°	1782.2	1777.6	1769.5	1781.3	1777.6
10°	1767.7	1764.1	1756.8	1766.8	1761.3
12.5°	1752.3	1749.5	1740.5	1749.5	1744.1
15°	1730.5	1726.9	1715.1	1726.9	1720.5
17.5°	1703.3	1698.8	1688.8	1698.8	1693.3
20°	1671.6	1666.1	1656.2	1666.1	1660.7
22.5°	1633.5	1629.0	1619.9	1629.0	1621.7
25°	1590.9	1585.5	1575.5	1582.8	1576.4
27.5°	1542.0	1534.7	1525.6	1531.1	1527.5
30°	1483.0	1474.0	1467.6	1467.6	1461.3
32.5°	1418.7	1412.3	1401.5	1395.1	1386.9
35°	1345.2	1336.2	1320.8	1309.0	1290.9
37.5°	1266.4	1255.5	1236.5	1206.6	1182.1
40°	1177.5	1163.9	1147.6	1088.7	1044.3
42.5°	1082.4	1079.6	1051.5	950.9	889.3
45°	981.7	985.4	944.6	809.5	753.3
47.5°	880.2	892.9	818.6	686.2	657.2
50°	791.4	795.9	697.1	595.6	579.3
52.5°	699.8	692.6	594.7	524.0	512.2
55°	616.4	587.4	510.4	456.9	456.0
57.5°	543.0	489.5	436.0	396.1	400.7
60°	465.9	406.1	366.2	344.5	350.8
62.5°	398.0	340.8	305.5	299.1	310.0
65°	345.4	286.5	248.4	264.7	273.8
67.5°	295.5	245.7	202.1	241.1	244.8
70°	249.3	213.0	170.4	222.1	223.0
72.5°	211.2	188.6	147.8	201.2	204.0
75°	184.0	164.1	136.0	179.5	188.6
77.5°	161.4	140.5	126.0	155.0	170.4
80°	136.9	113.3	115.1	129.6	145.0
82.5°	105.2	87.9	91.6	107.0	117.8
85°	71.6	68.0	61.6	79.8	85.2
87.5°	38.1	36.3	31.7	45.3	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)