

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: P291134

Luminaire Tested: **14GR-LD5-40-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291134
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3897.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

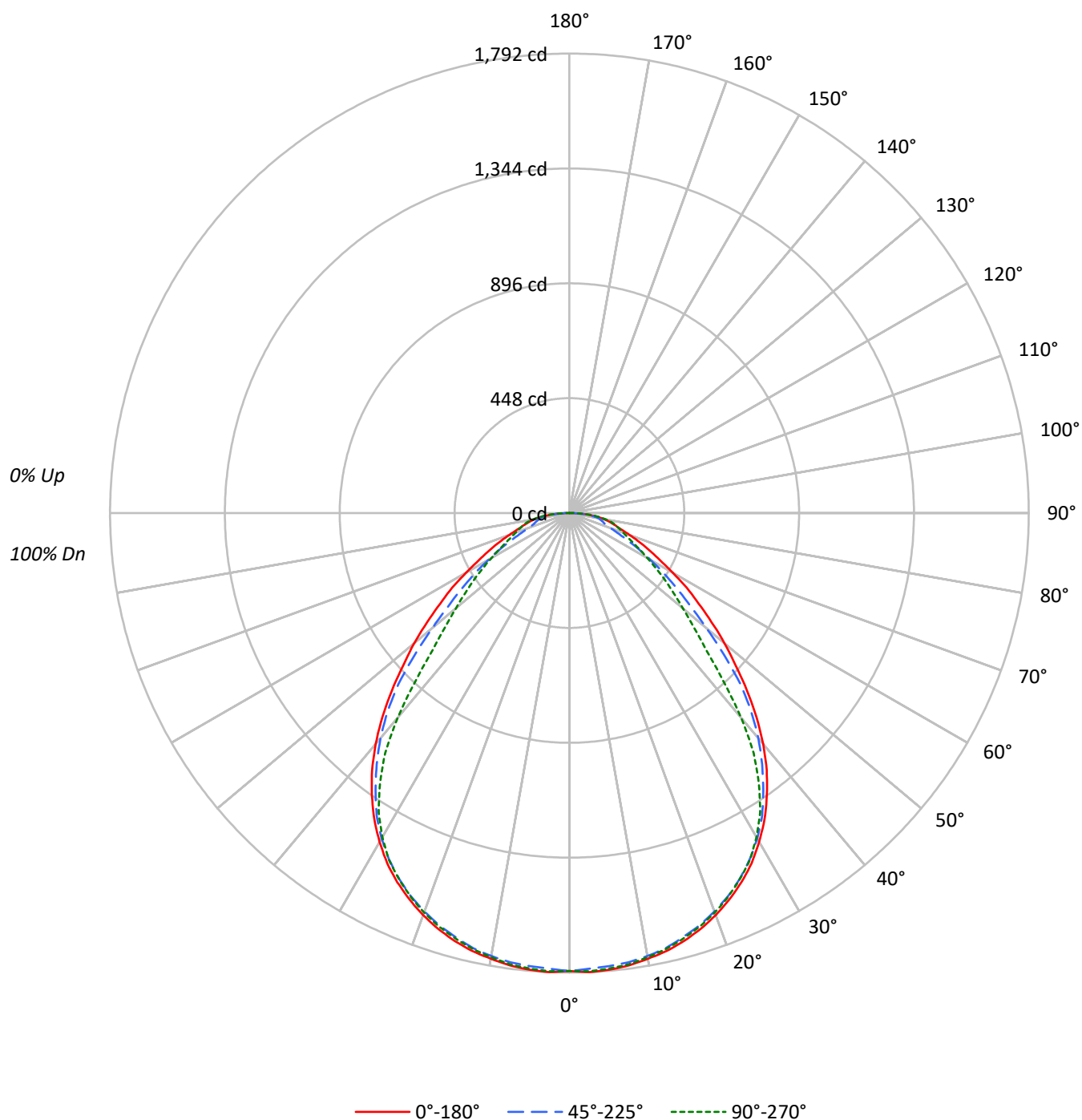
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4806	4806	4806
5°	4829	4792	4817
10°	4823	4793	4805
15°	4814	4771	4786
20°	4779	4735	4749
25°	4717	4671	4673
30°	4601	4553	4534
35°	4413	4332	4234
40°	4130	4025	3663
45°	3730	3589	2862
50°	3308	2914	2421
55°	2888	2391	2136
60°	2504	1968	1885
65°	2195	1579	1740
70°	1958	1339	1752
75°	1910	1412	1958
80°	2118	1781	2244
85°	2208	1899	2628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	4.3
10°-20°	485.4	12.5
20°-30°	726.1	18.6
30°-40°	819.6	21.0
40°-50°	695.3	17.8
50°-60°	470.5	12.1
60°-70°	280.8	7.2
70°-80°	175.9	4.5
80°-90°	74.0	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°	1380.9	35.4
0°-40°	2200.5	56.5
0°-60°	3366.4	86.4
0°-90°	3897.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1788	1782	1774	1787	1783	170
15°	1728	1724	1712	1724	1718	487
25°	1588	1583	1573	1580	1574	730
35°	1343	1334	1319	1307	1289	837
45°	980	984	943	808	752	755
55°	616	586	510	456	455	554
65°	345	286	248	264	273	345
75°	184	164	136	179	188	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°	1785.8	1785.8	1785.8	1785.8	1785.8
2.5°	1792.1	1786.7	1778.5	1789.4	1788.5
5°	1787.6	1782.2	1774.0	1786.7	1783.1
7.5°	1779.4	1774.9	1766.8	1778.5	1774.9
10°	1765.0	1761.3	1754.1	1764.1	1758.6
12.5°	1749.6	1746.9	1737.8	1746.9	1741.4
15°	1727.9	1724.2	1712.5	1724.2	1717.9
17.5°	1700.7	1696.2	1686.2	1696.2	1690.7
20°	1669.0	1663.6	1653.6	1663.6	1658.2
22.5°	1631.0	1626.5	1617.4	1626.5	1619.2
25°	1588.5	1583.0	1573.1	1580.3	1574.0
27.5°	1539.6	1532.3	1523.3	1528.7	1525.1
30°	1480.8	1471.7	1465.4	1465.4	1459.0
32.5°	1416.5	1410.2	1399.3	1393.0	1384.8
35°	1343.2	1334.1	1318.7	1307.0	1288.9
37.5°	1264.4	1253.6	1234.6	1204.7	1180.3
40°	1175.7	1162.2	1145.9	1087.0	1042.7
42.5°	1080.7	1078.0	1049.9	949.5	887.9
45°	980.2	983.9	943.1	808.3	752.1
47.5°	878.9	891.5	817.3	685.2	656.2
50°	790.2	794.7	696.0	594.7	578.4
52.5°	698.7	691.5	593.8	523.2	511.4
55°	615.5	586.5	509.6	456.2	455.3
57.5°	542.2	488.8	435.4	395.5	400.1
60°	465.2	405.5	365.7	343.9	350.3
62.5°	397.3	340.3	305.0	298.7	309.5
65°	344.8	286.0	248.0	264.3	273.3
67.5°	295.1	245.3	201.8	240.8	244.4
70°	248.9	212.7	170.2	221.8	222.7
72.5°	210.9	188.3	147.5	200.9	203.6
75°	183.7	163.8	135.8	179.2	188.3
77.5°	161.1	140.3	125.8	154.8	170.2
80°	136.7	113.1	114.9	129.4	144.8
82.5°	105.0	87.8	91.4	106.8	117.7
85°	71.5	67.9	61.5	79.6	85.1
87.5°	38.0	36.2	31.7	45.3	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)