

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: P291331

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 111.4 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

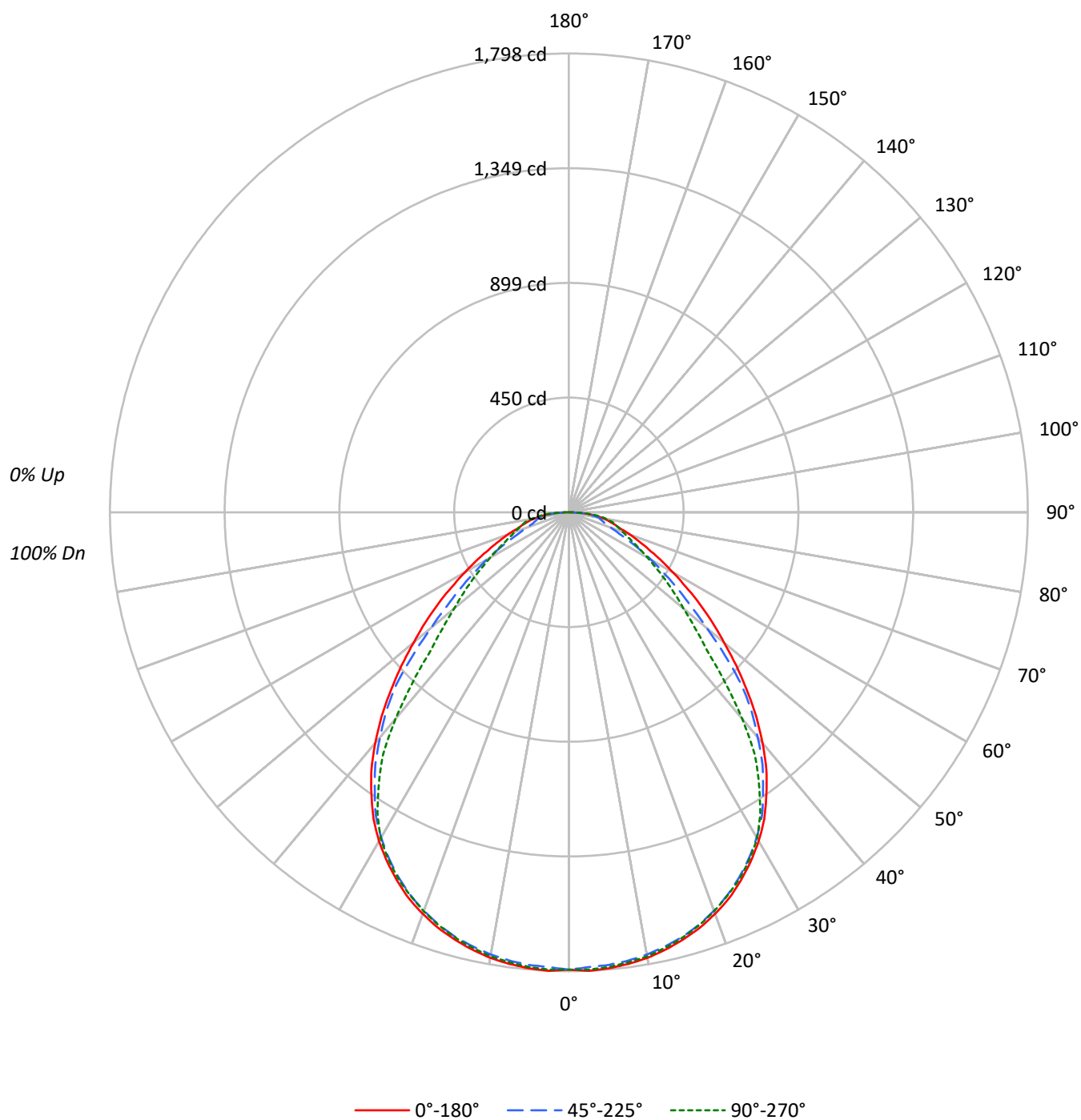
Input Watts (W): 35.247
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	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	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4822	4822	4822
5°	4846	4809	4831
10°	4844	4807	4827
15°	4827	4797	4805
20°	4795	4759	4764
25°	4731	4688	4701
30°	4623	4572	4583
35°	4432	4358	4265
40°	4144	4042	3709
45°	3751	3644	2909
50°	3318	2948	2452
55°	2936	2424	2163
60°	2535	2005	1917
65°	2204	1595	1764
70°	1993	1369	1763
75°	1913	1431	1970
80°	2132	1821	2301
85°	2251	1942	2757



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	4.3
10°-20°	487.1	12.4
20°-30°	729.0	18.6
30°-40°	825.3	21.0
40°-50°	702.9	17.9
50°-60°	476.0	12.1
60°-70°	284.1	7.2
70°-80°	177.5	4.5
80°-90°	75.0	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°	1386.1	35.3
0°-40°	2211.4	56.3
0°-60°	3390.3	86.3
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1792	1792	1792	1792	1792	
5°	1794	1789	1780	1791	1788	171
15°	1733	1726	1722	1733	1725	489
25°	1593	1589	1579	1586	1583	733
35°	1349	1341	1326	1313	1298	841
45°	986	988	958	816	764	760
55°	626	591	517	461	461	560
65°	346	289	250	268	277	349
75°	184	165	138	180	190	199
85°	73	67	63	79	89	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1792.0	1792.0	1792.0	1792.0	1792.0
2.5°	1798.4	1793.8	1783.8	1795.7	1793.8
5°	1793.8	1789.3	1780.2	1791.1	1788.4
7.5°	1784.7	1780.2	1772.0	1782.9	1778.3
10°	1772.9	1767.4	1759.2	1771.1	1766.5
12.5°	1754.7	1749.2	1741.9	1753.7	1747.4
15°	1732.8	1726.4	1721.9	1732.8	1724.6
17.5°	1706.4	1700.9	1694.5	1705.5	1696.4
20°	1674.5	1669.9	1661.7	1668.1	1663.6
22.5°	1638.0	1631.7	1623.5	1630.8	1624.4
25°	1593.4	1588.9	1578.8	1586.1	1583.4
27.5°	1542.4	1539.7	1527.8	1536.9	1532.4
30°	1487.7	1480.4	1471.3	1474.1	1475.0
32.5°	1424.9	1415.8	1408.5	1402.1	1395.7
35°	1349.2	1341.0	1326.5	1312.8	1298.2
37.5°	1270.9	1260.0	1245.4	1215.3	1197.1
40°	1179.8	1174.3	1150.6	1108.7	1055.9
42.5°	1086.9	1081.4	1060.4	966.6	909.2
45°	985.7	988.5	957.5	816.3	764.4
47.5°	889.2	896.5	829.0	696.9	669.6
50°	792.6	800.8	704.2	602.2	585.8
52.5°	707.9	701.5	600.4	528.4	521.1
55°	625.9	591.3	516.6	461.0	461.0
57.5°	542.1	492.9	439.1	403.6	403.6
60°	471.0	410.0	372.6	348.9	356.2
62.5°	405.4	340.7	308.8	304.3	313.4
65°	346.2	288.8	250.5	267.8	277.0
67.5°	297.9	246.9	205.9	242.3	247.8
70°	253.3	215.0	174.0	223.2	224.1
72.5°	212.3	189.5	149.4	202.3	205.9
75°	184.0	164.9	137.6	180.4	189.5
77.5°	161.3	141.2	126.6	155.8	173.1
80°	137.6	115.7	117.5	131.2	148.5
82.5°	105.7	89.3	92.9	107.5	121.2
85°	72.9	67.4	62.9	79.3	89.3
87.5°	39.2	36.4	31.9	44.6	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)