

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: P291162

Luminaire Tested: **14GR-LD5-32-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291162
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-LD5-32-A125-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3474.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

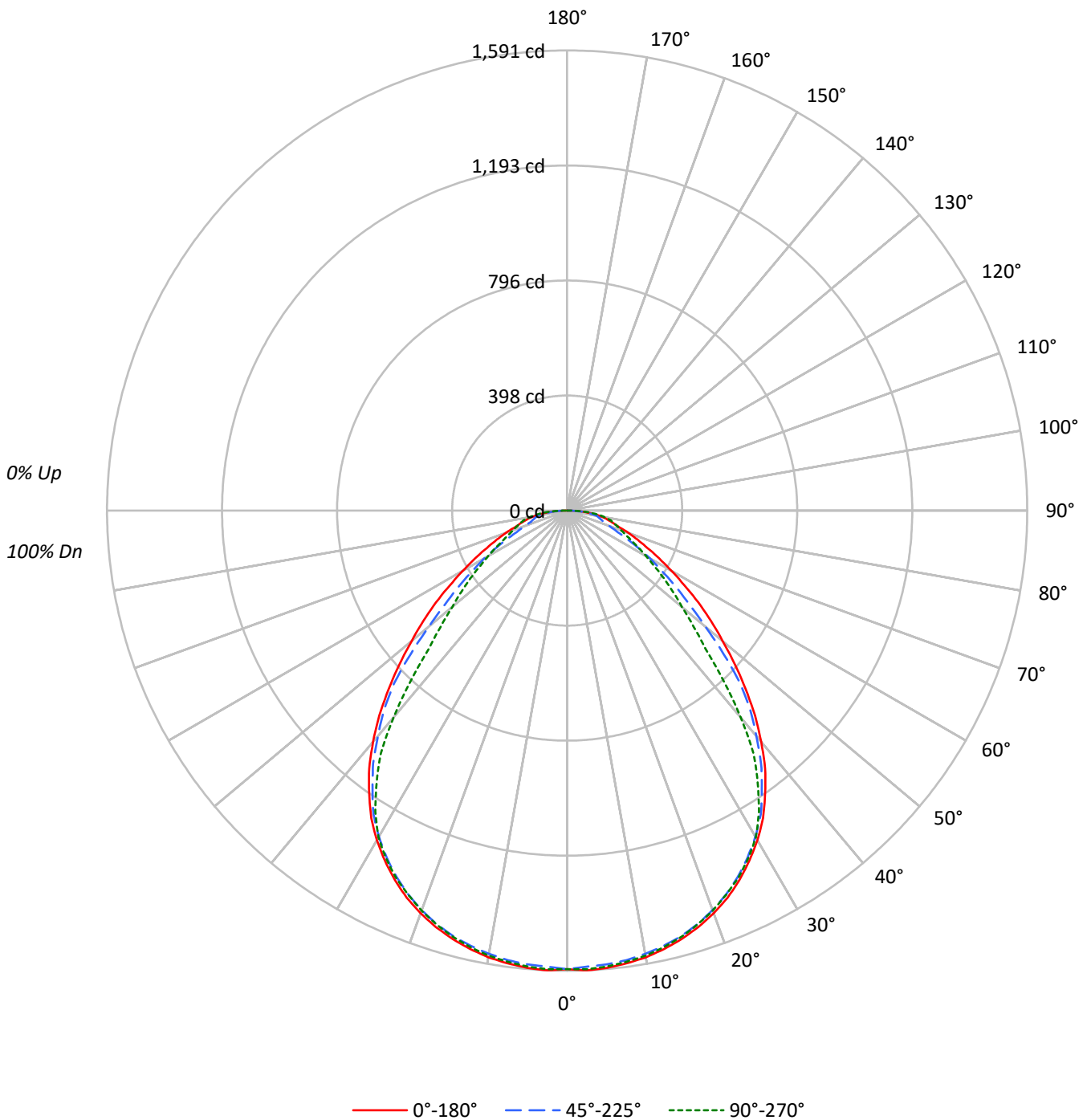
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4266	4266	4266
5°	4287	4254	4274
10°	4286	4253	4270
15°	4271	4243	4250
20°	4242	4210	4214
25°	4185	4147	4159
30°	4089	4044	4054
35°	3921	3855	3773
40°	3666	3576	3281
45°	3318	3223	2573
50°	2936	2608	2169
55°	2598	2144	1913
60°	2243	1774	1696
65°	1950	1411	1560
70°	1763	1211	1560
75°	1693	1265	1743
80°	1886	1612	2036
85°	1991	1717	2439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	4.3
10°-20°	430.9	12.4
20°-30°	644.9	18.6
30°-40°	730.1	21.0
40°-50°	621.8	17.9
50°-60°	421.0	12.1
60°-70°	251.4	7.2
70°-80°	157.1	4.5
80°-90°	66.4	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°	1226.2	35.3
0°-40°	1956.3	56.3
0°-60°	2999.2	86.3
0°-90°	3474.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3474.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1587	1583	1575	1584	1582	151
15°	1533	1527	1523	1533	1526	432
25°	1410	1406	1397	1403	1401	648
35°	1194	1186	1174	1161	1148	744
45°	872	874	847	722	676	673
55°	554	523	457	408	408	495
65°	306	256	222	237	245	309
75°	163	146	122	160	168	176
85°	64	60	56	70	79	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.3	1585.3	1585.3	1585.3	1585.3
2.5°	1590.9	1586.9	1578.0	1588.5	1586.9
5°	1586.9	1582.9	1574.8	1584.5	1582.1
7.5°	1578.8	1574.8	1567.6	1577.2	1573.2
10°	1568.4	1563.5	1556.3	1566.8	1562.7
12.5°	1552.3	1547.4	1541.0	1551.4	1545.8
15°	1532.9	1527.3	1523.2	1532.9	1525.7
17.5°	1509.5	1504.7	1499.1	1508.7	1500.7
20°	1481.3	1477.3	1470.0	1475.7	1471.7
22.5°	1449.1	1443.4	1436.2	1442.6	1437.0
25°	1409.6	1405.6	1396.7	1403.2	1400.7
27.5°	1364.5	1362.0	1351.6	1359.6	1355.6
30°	1316.1	1309.7	1301.6	1304.0	1304.8
32.5°	1260.5	1252.4	1246.0	1240.4	1234.7
35°	1193.6	1186.4	1173.5	1161.4	1148.5
37.5°	1124.3	1114.6	1101.7	1075.1	1059.0
40°	1043.7	1038.9	1017.9	980.8	934.1
42.5°	961.5	956.7	938.1	855.1	804.3
45°	872.0	874.5	847.0	722.1	676.2
47.5°	786.6	793.1	733.4	616.5	592.4
50°	701.2	708.4	623.0	532.7	518.2
52.5°	626.2	620.6	531.1	467.4	461.0
55°	553.7	523.1	457.0	407.8	407.8
57.5°	479.5	436.0	388.5	357.0	357.0
60°	416.7	362.7	329.6	308.7	315.1
62.5°	358.6	301.4	273.2	269.2	277.2
65°	306.3	255.5	221.6	236.9	245.0
67.5°	263.5	218.4	182.1	214.4	219.2
70°	224.1	190.2	153.9	197.5	198.3
72.5°	187.8	167.6	132.2	178.9	182.1
75°	162.8	145.9	121.7	159.6	167.6
77.5°	142.7	124.9	112.0	137.8	153.1
80°	121.7	102.4	104.0	116.1	131.4
82.5°	93.5	79.0	82.2	95.1	107.2
85°	64.5	59.6	55.6	70.1	79.0
87.5°	34.7	32.2	28.2	39.5	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)