

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: P291167

Luminaire Tested: **14GR-LD5-36-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291167
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-LD5-36-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: 3883.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

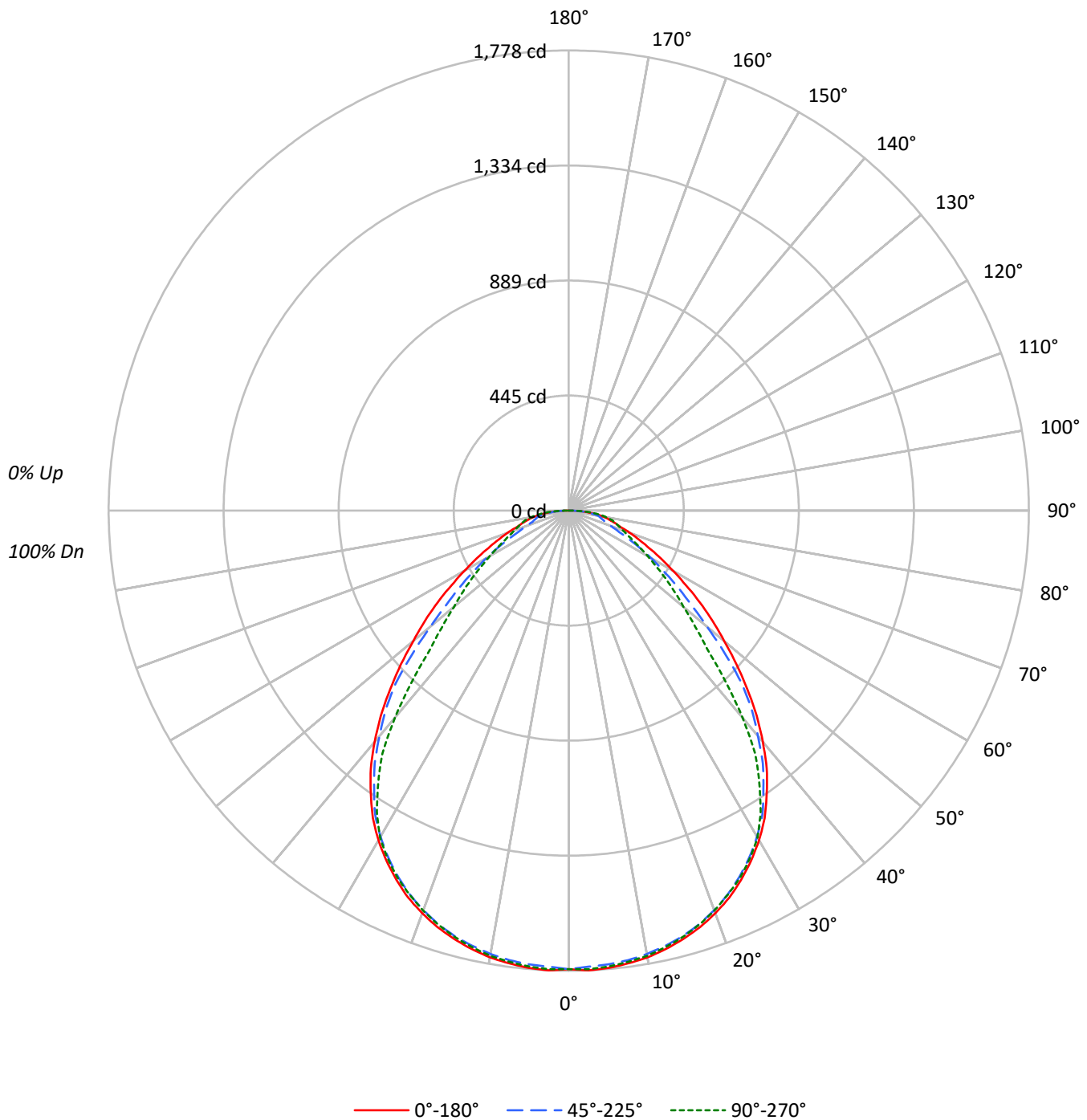
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4768	4768	4768
5°	4791	4755	4777
10°	4790	4753	4773
15°	4773	4743	4751
20°	4741	4705	4710
25°	4678	4635	4649
30°	4571	4520	4532
35°	4383	4309	4217
40°	4098	3997	3668
45°	3709	3603	2876
50°	3281	2915	2425
55°	2904	2396	2138
60°	2506	1983	1896
65°	2180	1577	1744
70°	1970	1354	1744
75°	1892	1414	1948
80°	2108	1801	2275
85°	2226	1920	2726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.1	4.3
10°-20°	481.7	12.4
20°-30°	720.9	18.6
30°-40°	816.0	21.0
40°-50°	695.1	17.9
50°-60°	470.6	12.1
60°-70°	281.0	7.2
70°-80°	175.5	4.5
80°-90°	74.2	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°	1370.6	35.3
0°-40°	2186.6	56.3
0°-60°	3352.3	86.3
0°-90°	3883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1772	1772	1772	1772	1772	
5°	1774	1769	1760	1771	1768	169
15°	1713	1707	1703	1713	1705	483
25°	1576	1571	1561	1568	1566	725
35°	1334	1326	1312	1298	1284	832
45°	975	977	947	807	756	752
55°	619	585	511	456	456	553
65°	342	286	248	265	274	345
75°	182	163	136	178	187	196
85°	72	67	62	78	88	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.9	1771.9	1771.9	1771.9	1771.9
2.5°	1778.2	1773.7	1763.8	1775.5	1773.7
5°	1773.7	1769.2	1760.2	1771.0	1768.3
7.5°	1764.7	1760.2	1752.1	1762.9	1758.4
10°	1753.0	1747.6	1739.5	1751.2	1746.7
12.5°	1735.0	1729.6	1722.4	1734.1	1727.8
15°	1713.4	1707.1	1702.6	1713.4	1705.3
17.5°	1687.3	1681.9	1675.5	1686.4	1677.3
20°	1655.7	1651.2	1643.1	1649.4	1644.9
22.5°	1619.7	1613.4	1605.3	1612.5	1606.2
25°	1575.6	1571.0	1561.1	1568.3	1565.6
27.5°	1525.1	1522.4	1510.7	1519.7	1515.2
30°	1471.1	1463.9	1454.8	1457.5	1458.4
32.5°	1408.9	1399.9	1392.7	1386.4	1380.1
35°	1334.1	1326.0	1311.6	1298.1	1283.7
37.5°	1256.7	1245.8	1231.4	1201.7	1183.7
40°	1166.6	1161.2	1137.7	1096.3	1044.1
42.5°	1074.7	1069.3	1048.6	955.8	899.0
45°	974.7	977.4	946.8	807.1	755.8
47.5°	879.2	886.4	819.8	689.1	662.1
50°	783.7	791.8	696.3	595.4	579.2
52.5°	699.9	693.6	593.6	522.5	515.3
55°	618.9	584.6	510.8	455.8	455.8
57.5°	536.0	487.3	434.2	399.1	399.1
60°	465.7	405.4	368.4	345.0	352.2
62.5°	400.9	336.9	305.4	300.9	309.9
65°	342.3	285.6	247.7	264.8	273.9
67.5°	294.6	244.1	203.6	239.6	245.0
70°	250.4	212.6	172.1	220.7	221.6
72.5°	209.9	187.4	147.7	200.0	203.6
75°	182.0	163.1	136.0	178.4	187.4
77.5°	159.4	139.6	125.2	154.0	171.2
80°	136.0	114.4	116.2	129.7	146.8
82.5°	104.5	88.3	91.9	106.3	119.8
85°	72.1	66.7	62.2	78.4	88.3
87.5°	38.7	36.0	31.5	44.1	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)