

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: P291210

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291210
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-L82765-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: 3302.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

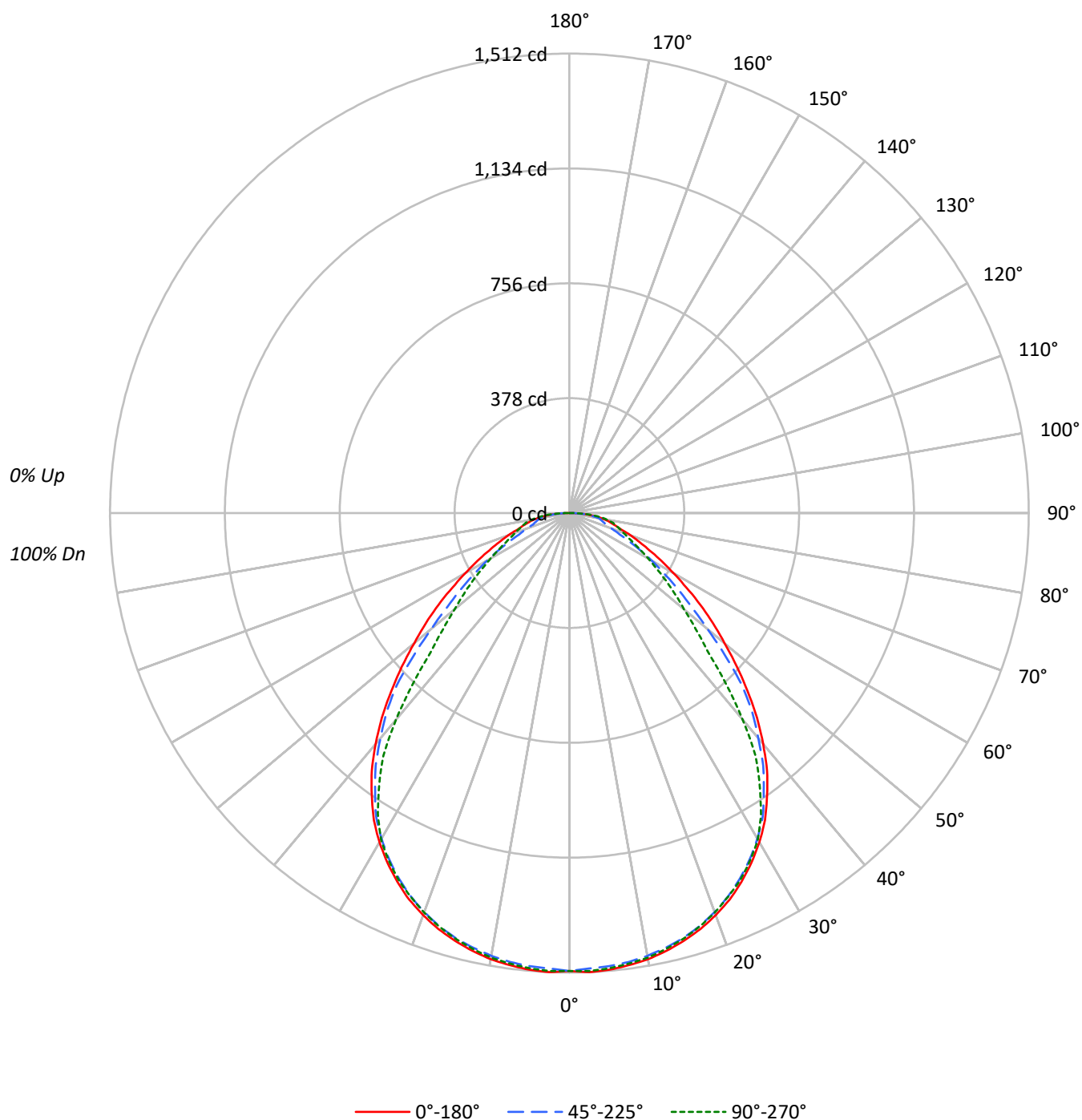
Input Watts (W): 25.947
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	4055	4055	4055
5°	4074	4043	4062
10°	4073	4042	4059
15°	4059	4033	4040
20°	4032	4001	4006
25°	3978	3942	3953
30°	3887	3844	3854
35°	3727	3664	3586
40°	3485	3399	3119
45°	3154	3064	2446
50°	2790	2479	2062
55°	2469	2038	1818
60°	2131	1686	1612
65°	1854	1342	1483
70°	1676	1151	1482
75°	1608	1203	1656
80°	1793	1531	1936
85°	1893	1633	2319



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.9	4.3
10°-20°	409.6	12.4
20°-30°	613.0	18.6
30°-40°	693.9	21.0
40°-50°	591.1	17.9
50°-60°	400.2	12.1
60°-70°	238.9	7.2
70°-80°	149.3	4.5
80°-90°	63.1	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°	1165.5	35.3
0°-40°	1859.4	56.3
0°-60°	2850.7	86.3
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1508	1504	1497	1506	1504	143
15°	1457	1452	1448	1457	1450	411
25°	1340	1336	1328	1334	1331	616
35°	1134	1128	1115	1104	1092	707
45°	829	831	805	686	643	639
55°	526	497	434	388	388	471
65°	291	243	211	225	233	293
75°	155	139	116	152	159	167
85°	61	57	53	67	75	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.8	1506.8	1506.8	1506.8	1506.8
2.5°	1512.2	1508.3	1499.9	1509.9	1508.3
5°	1508.3	1504.5	1496.8	1506.0	1503.7
7.5°	1500.7	1496.8	1490.0	1499.1	1495.3
10°	1490.7	1486.1	1479.2	1489.2	1485.4
12.5°	1475.4	1470.8	1464.7	1474.6	1469.3
15°	1457.0	1451.7	1447.8	1457.0	1450.1
17.5°	1434.8	1430.2	1424.8	1434.0	1426.4
20°	1408.0	1404.2	1397.3	1402.6	1398.8
22.5°	1377.3	1372.0	1365.1	1371.2	1365.9
25°	1339.8	1336.0	1327.6	1333.7	1331.4
27.5°	1296.9	1294.6	1284.7	1292.3	1288.5
30°	1250.9	1244.8	1237.2	1239.5	1240.2
32.5°	1198.1	1190.4	1184.3	1178.9	1173.6
35°	1134.5	1127.6	1115.4	1103.9	1091.6
37.5°	1068.6	1059.4	1047.2	1021.9	1006.6
40°	992.0	987.4	967.5	932.3	887.8
42.5°	913.9	909.3	891.7	812.8	764.5
45°	828.9	831.2	805.1	686.4	642.7
47.5°	747.7	753.8	697.1	586.0	563.0
50°	666.5	673.4	592.2	506.4	492.6
52.5°	595.2	589.9	504.8	444.3	438.2
55°	526.3	497.2	434.3	387.6	387.6
57.5°	455.8	414.4	369.2	339.4	339.4
60°	396.0	344.7	313.3	293.4	299.5
62.5°	340.9	286.5	259.7	255.9	263.5
65°	291.1	242.8	210.7	225.2	232.9
67.5°	250.5	207.6	173.1	203.8	208.4
70°	213.0	180.8	146.3	187.7	188.4
72.5°	178.5	159.3	125.6	170.1	173.1
75°	154.7	138.7	115.7	151.7	159.3
77.5°	135.6	118.7	106.5	131.0	145.5
80°	115.7	97.3	98.8	110.3	124.9
82.5°	88.9	75.1	78.1	90.4	101.9
85°	61.3	56.7	52.9	66.6	75.1
87.5°	32.9	30.6	26.8	37.5	38.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)