

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: P291316

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291316
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-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164.0 lumens
Efficiency: N/A
Efficacy: 107.7 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

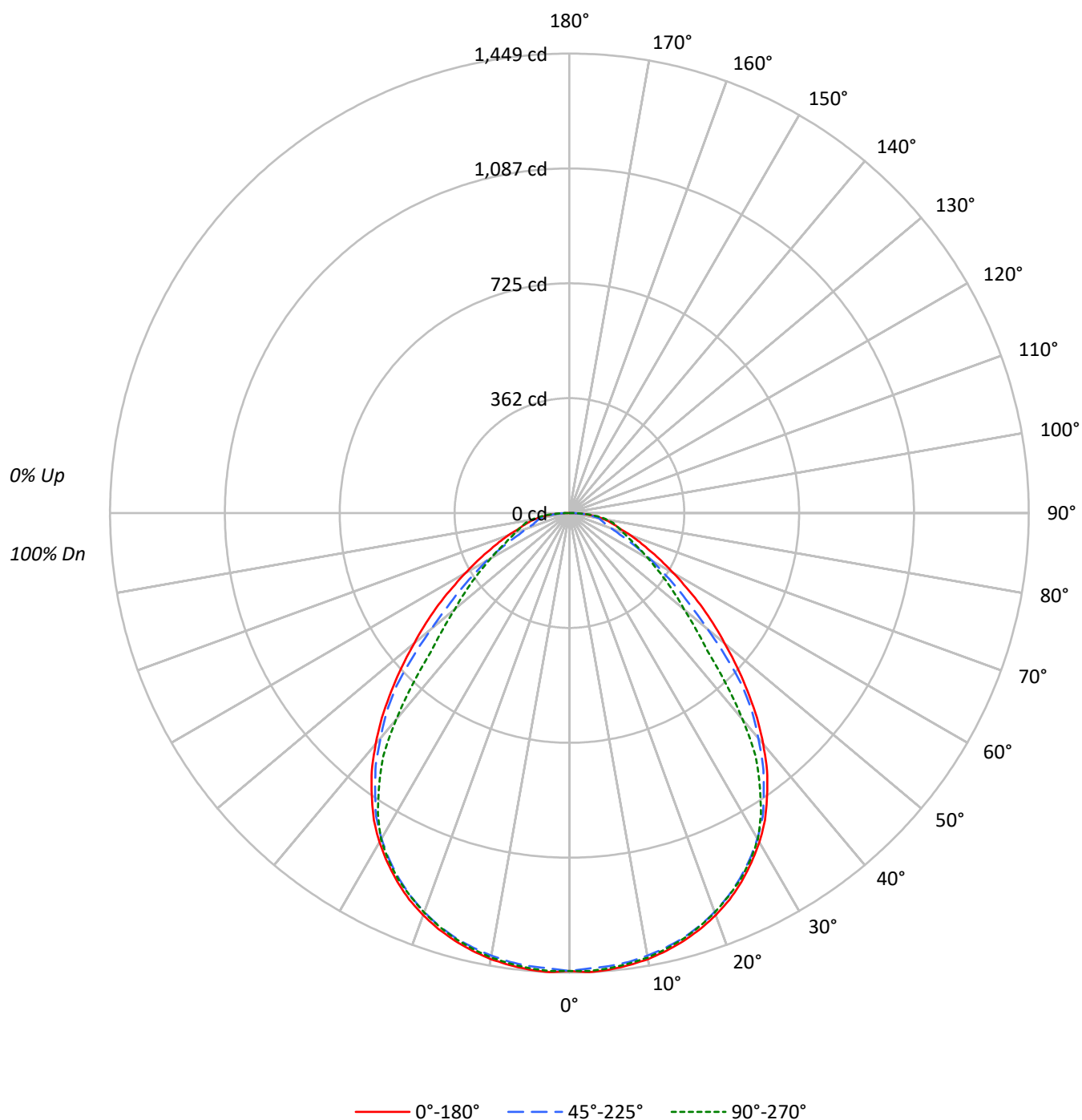
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3885	3885	3885
5°	3904	3874	3892
10°	3903	3873	3889
15°	3889	3865	3871
20°	3863	3834	3838
25°	3812	3777	3788
30°	3725	3684	3693
35°	3571	3511	3436
40°	3339	3257	2988
45°	3022	2936	2343
50°	2673	2375	1976
55°	2366	1953	1742
60°	2042	1616	1545
65°	1776	1286	1421
70°	1606	1103	1421
75°	1542	1152	1588
80°	1717	1468	1853
85°	1812	1562	2220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	4.3
10°-20°	392.5	12.4
20°-30°	587.4	18.6
30°-40°	664.9	21.0
40°-50°	566.4	17.9
50°-60°	383.5	12.1
60°-70°	228.9	7.2
70°-80°	143.0	4.5
80°-90°	60.5	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°	1116.8	35.3
0°-40°	1781.7	56.3
0°-60°	2731.6	86.3
0°-90°	3164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1445	1442	1434	1443	1441	137
15°	1396	1391	1387	1396	1390	394
25°	1284	1280	1272	1278	1276	590
35°	1087	1080	1069	1058	1046	678
45°	794	796	772	658	616	613
55°	504	476	416	371	371	451
65°	279	233	202	216	223	281
75°	148	133	111	145	153	160
85°	59	54	51	64	72	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1443.8	1443.8	1443.8	1443.8	1443.8
2.5°	1449.0	1445.3	1437.2	1446.8	1445.3
5°	1445.3	1441.6	1434.3	1443.1	1440.9
7.5°	1438.0	1434.3	1427.7	1436.5	1432.8
10°	1428.4	1424.0	1417.4	1427.0	1423.3
12.5°	1413.7	1409.3	1403.5	1413.0	1407.9
15°	1396.1	1391.0	1387.3	1396.1	1389.5
17.5°	1374.8	1370.4	1365.3	1374.1	1366.8
20°	1349.1	1345.5	1338.9	1344.0	1340.3
22.5°	1319.8	1314.6	1308.0	1313.9	1308.8
25°	1283.8	1280.1	1272.1	1277.9	1275.7
27.5°	1242.7	1240.5	1231.0	1238.3	1234.6
30°	1198.7	1192.8	1185.5	1187.7	1188.4
32.5°	1148.0	1140.7	1134.8	1129.7	1124.5
35°	1087.1	1080.5	1068.7	1057.7	1046.0
37.5°	1024.0	1015.2	1003.4	979.2	964.5
40°	950.6	946.2	927.1	893.3	850.7
42.5°	875.7	871.3	854.4	778.8	732.6
45°	794.2	796.4	771.5	657.7	615.8
47.5°	716.4	722.3	668.0	561.5	539.5
50°	638.6	645.2	567.4	485.2	472.0
52.5°	570.3	565.2	483.7	425.7	419.9
55°	504.3	476.4	416.2	371.4	371.4
57.5°	436.7	397.1	353.8	325.2	325.2
60°	379.5	330.3	300.2	281.1	287.0
62.5°	326.6	274.5	248.8	245.2	252.5
65°	278.9	232.7	201.9	215.8	223.1
67.5°	240.0	198.9	165.9	195.3	199.7
70°	204.1	173.2	140.2	179.8	180.6
72.5°	171.0	152.7	120.4	163.0	165.9
75°	148.3	132.9	110.8	145.3	152.7
77.5°	129.9	113.8	102.0	125.5	139.5
80°	110.8	93.2	94.7	105.7	119.6
82.5°	85.1	71.9	74.9	86.6	97.6
85°	58.7	54.3	50.6	63.9	71.9
87.5°	31.6	29.4	25.7	36.0	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)