

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: P291321

Luminaire Tested: **14GR-LD5-36-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291321
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3486.0 lumens
Efficiency: N/A
Efficacy: 115.3 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

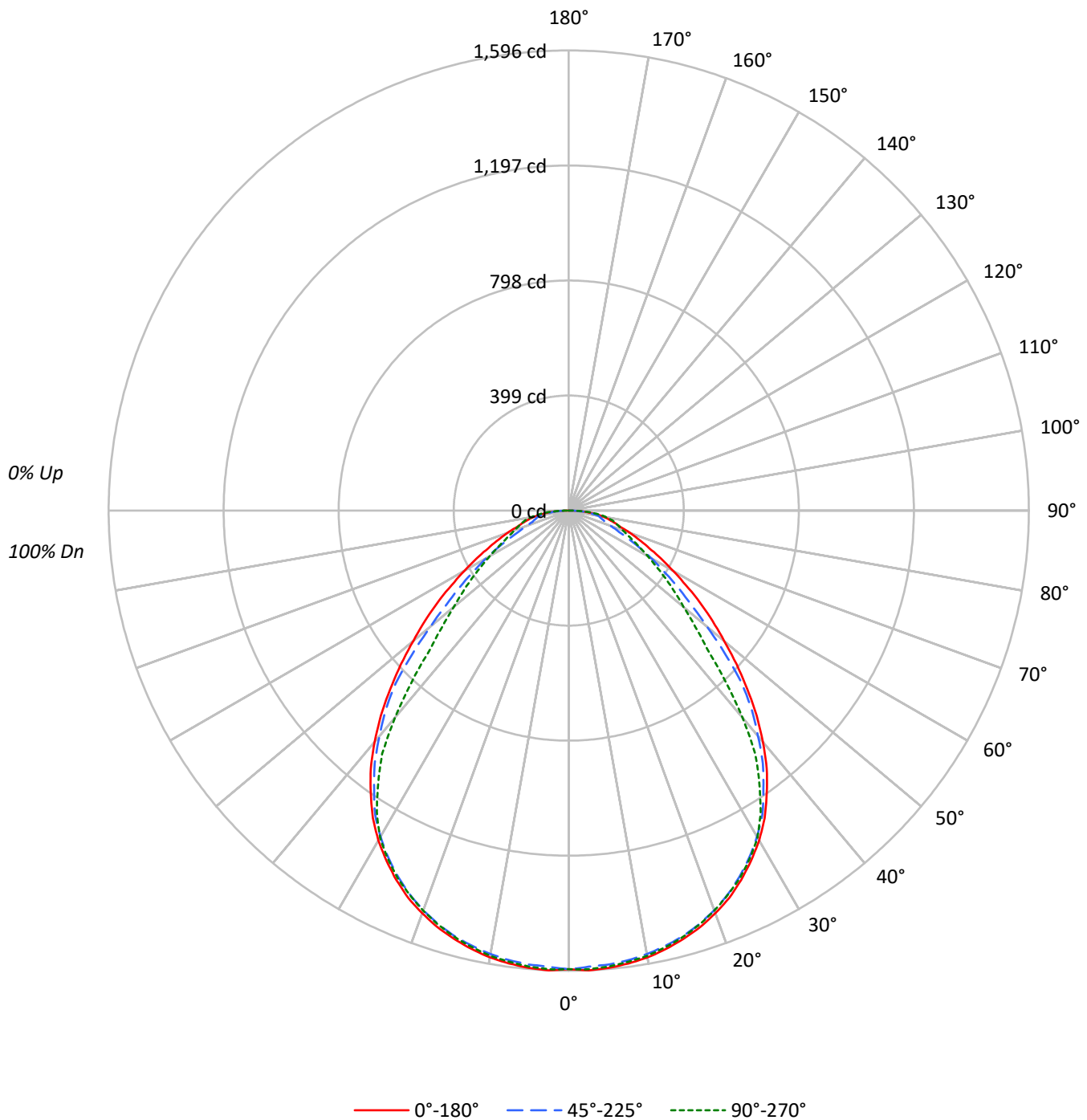
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4281	4281	4281
5°	4301	4269	4288
10°	4300	4267	4285
15°	4285	4258	4265
20°	4257	4224	4229
25°	4200	4161	4173
30°	4104	4058	4068
35°	3935	3868	3786
40°	3679	3588	3293
45°	3330	3235	2582
50°	2946	2617	2177
55°	2607	2151	1920
60°	2250	1780	1702
65°	1957	1416	1566
70°	1769	1216	1565
75°	1699	1269	1749
80°	1892	1616	2042
85°	1998	1723	2448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	4.3
10°-20°	432.4	12.4
20°-30°	647.2	18.6
30°-40°	732.6	21.0
40°-50°	624.0	17.9
50°-60°	422.5	12.1
60°-70°	252.3	7.2
70°-80°	157.6	4.5
80°-90°	66.6	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°	1230.5	35.3
0°-40°	1963.1	56.3
0°-60°	3009.6	86.3
0°-90°	3486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1591	1591	1591	1591	1591	
5°	1592	1588	1580	1590	1588	151
15°	1538	1532	1528	1538	1531	434
25°	1414	1410	1402	1408	1406	651
35°	1198	1190	1178	1165	1152	747
45°	875	878	850	725	678	675
55°	556	525	458	409	409	497
65°	307	256	222	238	246	310
75°	163	146	122	160	168	176
85°	65	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°	1590.8	1590.8	1590.8	1590.8	1590.8
2.5°	1596.4	1592.4	1583.5	1594.0	1592.4
5°	1592.4	1588.3	1580.3	1590.0	1587.5
7.5°	1584.3	1580.3	1573.0	1582.7	1578.6
10°	1573.8	1568.9	1561.7	1572.2	1568.1
12.5°	1557.6	1552.8	1546.3	1556.8	1551.1
15°	1538.2	1532.5	1528.5	1538.2	1530.9
17.5°	1514.8	1509.9	1504.2	1513.9	1505.9
20°	1486.4	1482.4	1475.1	1480.8	1476.7
22.5°	1454.1	1448.4	1441.2	1447.6	1442.0
25°	1414.5	1410.4	1401.5	1408.0	1405.6
27.5°	1369.2	1366.8	1356.2	1364.3	1360.3
30°	1320.7	1314.2	1306.1	1308.5	1309.3
32.5°	1264.9	1256.8	1250.3	1244.6	1239.0
35°	1197.7	1190.5	1177.5	1165.4	1152.4
37.5°	1128.2	1118.5	1105.5	1078.8	1062.7
40°	1047.3	1042.5	1021.4	984.2	937.3
42.5°	964.8	960.0	941.4	858.1	807.1
45°	875.0	877.5	850.0	724.6	678.5
47.5°	789.3	795.8	735.9	618.7	594.4
50°	703.6	710.9	625.1	534.6	520.0
52.5°	628.4	622.7	533.0	469.1	462.6
55°	555.6	524.9	458.5	409.2	409.2
57.5°	481.2	437.5	389.8	358.3	358.3
60°	418.1	363.9	330.8	309.7	316.2
62.5°	359.9	302.5	274.2	270.1	278.2
65°	307.3	256.4	222.4	237.8	245.9
67.5°	264.5	219.2	182.8	215.1	220.0
70°	224.8	190.9	154.5	198.1	198.9
72.5°	188.4	168.2	132.6	179.5	182.8
75°	163.4	146.4	122.1	160.1	168.2
77.5°	143.1	125.4	112.4	138.3	153.7
80°	122.1	102.7	104.3	116.5	131.8
82.5°	93.8	79.3	82.5	95.4	107.6
85°	64.7	59.8	55.8	70.4	79.3
87.5°	34.8	32.3	28.3	39.6	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)