

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: P291213

Luminaire Tested: **14GR-LD5-32-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291213
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3440.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

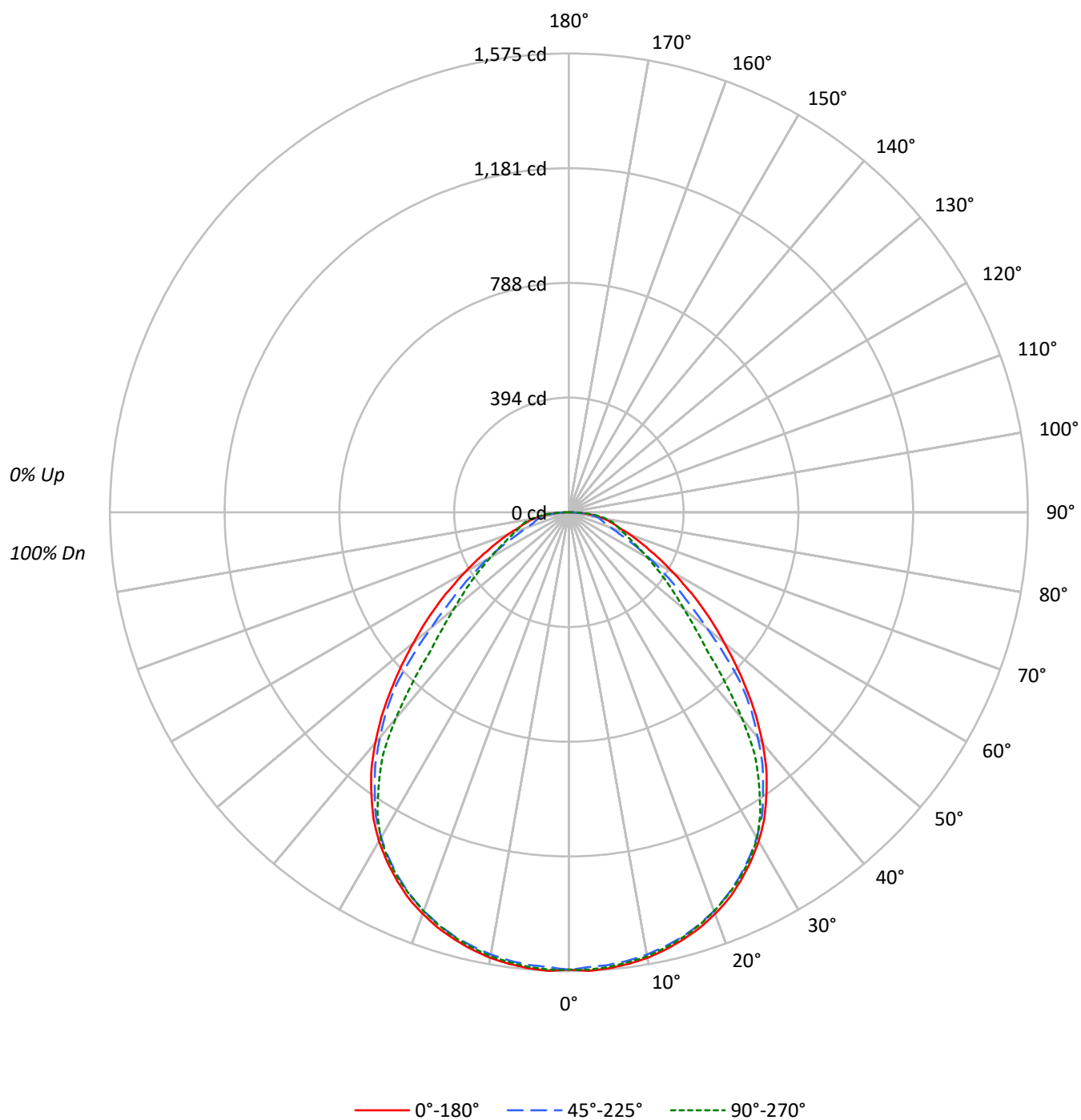
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4224	4224	4224
5°	4245	4212	4232
10°	4244	4211	4228
15°	4229	4202	4209
20°	4200	4169	4173
25°	4144	4106	4118
30°	4049	4005	4015
35°	3883	3817	3736
40°	3631	3541	3249
45°	3286	3192	2548
50°	2907	2583	2148
55°	2572	2123	1894
60°	2221	1757	1679
65°	1931	1398	1545
70°	1746	1199	1544
75°	1676	1253	1726
80°	1867	1595	2016
85°	1970	1701	2414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	4.3
10°-20°	426.7	12.4
20°-30°	638.6	18.6
30°-40°	722.9	21.0
40°-50°	615.8	17.9
50°-60°	416.9	12.1
60°-70°	248.9	7.2
70°-80°	155.5	4.5
80°-90°	65.7	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°	1214.2	35.3
0°-40°	1937.1	56.3
0°-60°	2969.8	86.3
0°-90°	3440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1571	1567	1559	1569	1567	149
15°	1518	1512	1508	1518	1511	428
25°	1396	1392	1383	1389	1387	642
35°	1182	1175	1162	1150	1137	737
45°	864	866	839	715	670	666
55°	548	518	452	404	404	490
65°	303	253	220	235	243	306
75°	161	144	120	158	166	174
85°	64	59	55	69	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.8	1569.8	1569.8	1569.8	1569.8
2.5°	1575.4	1571.4	1562.6	1573.0	1571.4
5°	1571.4	1567.4	1559.4	1569.0	1566.6
7.5°	1563.4	1559.4	1552.2	1561.8	1557.8
10°	1553.0	1548.2	1541.1	1551.4	1547.4
12.5°	1537.1	1532.3	1525.9	1536.3	1530.7
15°	1517.9	1512.3	1508.3	1517.9	1510.7
17.5°	1494.8	1490.0	1484.4	1494.0	1486.0
20°	1466.8	1462.8	1455.7	1461.2	1457.3
22.5°	1434.9	1429.3	1422.1	1428.5	1422.9
25°	1395.8	1391.8	1383.0	1389.4	1387.0
27.5°	1351.1	1348.7	1338.3	1346.3	1342.3
30°	1303.2	1296.8	1288.9	1291.3	1292.1
32.5°	1248.2	1240.2	1233.8	1228.2	1222.6
35°	1181.9	1174.7	1162.0	1150.0	1137.2
37.5°	1113.3	1103.7	1090.9	1064.6	1048.6
40°	1033.5	1028.7	1007.9	971.2	924.9
42.5°	952.1	947.3	928.9	846.7	796.5
45°	863.5	865.9	838.8	715.1	669.6
47.5°	778.9	785.3	726.2	610.5	586.6
50°	694.3	701.5	616.9	527.5	513.2
52.5°	620.1	614.5	525.9	462.9	456.5
55°	548.3	517.9	452.5	403.8	403.8
57.5°	474.8	431.7	384.7	353.5	353.5
60°	412.6	359.1	326.4	305.7	312.0
62.5°	355.1	298.5	270.5	266.6	274.5
65°	303.3	253.0	219.5	234.6	242.6
67.5°	261.0	216.3	180.4	212.3	217.1
70°	221.9	188.3	152.4	195.5	196.3
72.5°	185.9	166.0	130.9	177.2	180.4
75°	161.2	144.4	120.5	158.0	166.0
77.5°	141.3	123.7	110.9	136.5	151.6
80°	120.5	101.4	102.9	114.9	130.1
82.5°	92.6	78.2	81.4	94.2	106.1
85°	63.8	59.1	55.1	69.4	78.2
87.5°	34.3	31.9	27.9	39.1	39.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)