

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: P290968

Luminaire Tested: **14GR-LD5-32-A-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A-UNV-L83050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3503.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

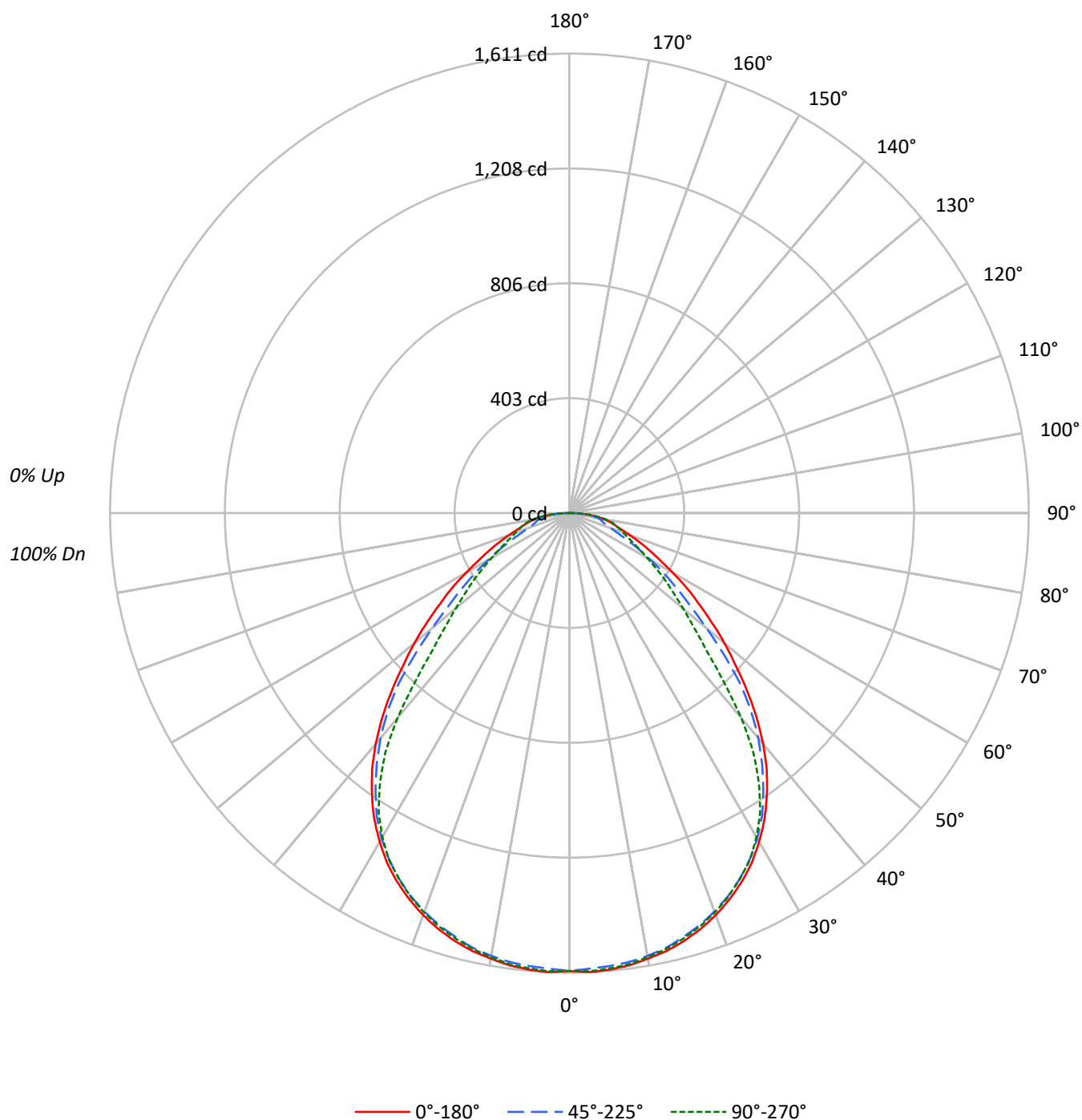
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4320	4320	4320
5°	4341	4308	4330
10°	4335	4309	4320
15°	4327	4288	4302
20°	4296	4257	4268
25°	4240	4198	4201
30°	4136	4093	4075
35°	3966	3894	3806
40°	3713	3618	3293
45°	3353	3226	2573
50°	2974	2619	2177
55°	2595	2149	1920
60°	2251	1769	1695
65°	1974	1419	1564
70°	1760	1204	1574
75°	1718	1268	1759
80°	1905	1601	2018
85°	1985	1707	2362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	4.3
10°-20°	436.3	12.5
20°-30°	652.7	18.6
30°-40°	736.8	21.0
40°-50°	625.0	17.8
50°-60°	422.9	12.1
60°-70°	252.4	7.2
70°-80°	158.1	4.5
80°-90°	66.5	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°	1241.3	35.4
0°-40°	1978.0	56.5
0°-60°	3026.0	86.4
0°-90°	3503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1607	1602	1595	1606	1603	153
15°	1553	1550	1539	1550	1544	438
25°	1428	1423	1414	1420	1415	657
35°	1207	1199	1185	1175	1159	752
45°	881	884	848	726	676	679
55°	553	527	458	410	409	498
65°	310	257	223	238	246	310
75°	165	147	122	161	169	178
85°	64	61	55	72	76	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1605.2	1605.2	1605.2	1605.2	1605.2
2.5°	1610.9	1606.0	1598.7	1608.5	1607.7
5°	1606.9	1602.0	1594.7	1606.0	1602.8
7.5°	1599.5	1595.5	1588.1	1598.7	1595.5
10°	1586.5	1583.3	1576.8	1585.7	1580.8
12.5°	1572.7	1570.2	1562.1	1570.2	1565.4
15°	1553.2	1549.9	1539.3	1549.9	1544.2
17.5°	1528.8	1524.7	1515.7	1524.7	1519.8
20°	1500.3	1495.4	1486.4	1495.4	1490.5
22.5°	1466.1	1462.0	1453.9	1462.0	1455.5
25°	1427.9	1423.0	1414.0	1420.5	1414.8
27.5°	1383.9	1377.4	1369.3	1374.2	1370.9
30°	1331.0	1322.9	1317.2	1317.2	1311.5
32.5°	1273.3	1267.6	1257.8	1252.1	1244.8
35°	1207.4	1199.2	1185.4	1174.8	1158.6
37.5°	1136.6	1126.8	1109.7	1082.9	1060.9
40°	1056.9	1044.7	1030.0	977.1	937.3
42.5°	971.4	969.0	943.8	853.5	798.1
45°	881.1	884.4	847.8	726.5	676.1
47.5°	790.0	801.4	734.7	615.9	589.9
50°	710.3	714.3	625.7	534.5	519.9
52.5°	628.1	621.6	533.7	470.3	459.7
55°	553.2	527.2	458.1	410.1	409.2
57.5°	487.3	439.3	391.3	355.5	359.6
60°	418.2	364.5	328.7	309.2	314.9
62.5°	357.2	305.9	274.2	268.5	278.3
65°	310.0	257.1	222.9	237.6	245.7
67.5°	265.2	220.5	181.4	216.4	219.7
70°	223.7	191.2	153.0	199.3	200.1
72.5°	189.6	169.2	132.6	180.6	183.1
75°	165.2	147.3	122.0	161.1	169.2
77.5°	144.8	126.1	113.1	139.1	153.0
80°	122.9	101.7	103.3	116.3	130.2
82.5°	94.4	78.9	82.2	96.0	105.8
85°	64.3	61.0	55.3	71.6	76.5
87.5°	34.2	32.5	28.5	40.7	38.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)