

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: P291508

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

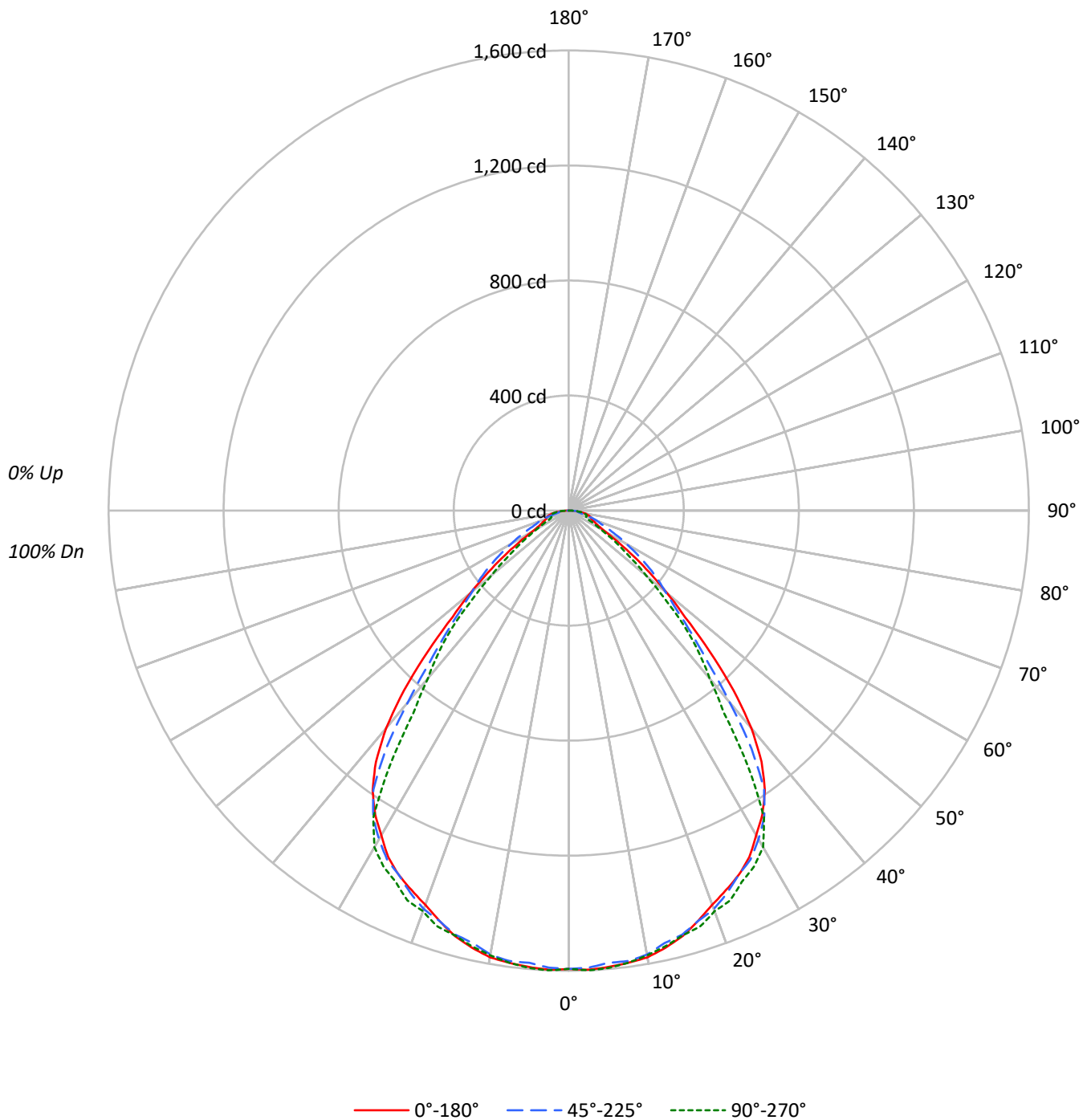
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77		
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68		
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61		
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54		
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49		
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44		
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40		
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37		
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4289	4289	4289
5°	4303	4262	4312
10°	4310	4283	4291
15°	4266	4251	4260
20°	4177	4222	4245
25°	4151	4149	4229
30°	4050	4099	4199
35°	3906	3890	3574
40°	3468	3061	2680
45°	2632	2290	2167
50°	1867	1832	1471
55°	1278	1564	1011
60°	790	1248	675
65°	651	961	489
70°	648	836	502
75°	778	599	671
80°	893	553	840
85°	846	976	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	5.0
10°-20°	431.6	14.4
20°-30°	649.0	21.7
30°-40°	707.6	23.6
40°-50°	495.4	16.5
50°-60°	280.4	9.4
60°-70°	153.4	5.1
70°-80°	93.0	3.1
80°-90°	35.3	1.2
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°	1231.8	41.1
0°-40°	1939.4	64.7
0°-60°	2715.3	90.6
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1593	1590	1578	1596	1596	152
15°	1531	1527	1526	1548	1529	431
25°	1398	1401	1398	1430	1424	642
35°	1189	1183	1184	1124	1088	733
45°	692	722	602	594	569	537
55°	272	326	333	331	215	249
65°	102	168	151	191	77	105
75°	75	108	58	113	64	78
85°	27	45	32	38	31	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1597.8	1595.7	1590.9	1600.5	1599.9
5°	1593.0	1590.3	1577.9	1596.4	1596.4
7.5°	1586.1	1579.3	1580.0	1590.3	1585.5
10°	1577.2	1565.6	1567.6	1570.4	1570.4
12.5°	1556.6	1545.7	1540.2	1549.1	1551.8
15°	1531.3	1527.1	1525.8	1547.7	1529.2
17.5°	1495.6	1504.5	1496.3	1514.1	1516.9
20°	1458.5	1475.7	1474.3	1486.7	1482.5
22.5°	1428.4	1439.3	1439.3	1454.4	1466.8
25°	1398.2	1400.9	1397.5	1429.7	1424.2
27.5°	1359.1	1357.0	1368.0	1384.4	1395.4
30°	1303.5	1304.2	1319.3	1341.2	1351.5
32.5°	1252.7	1246.5	1265.1	1274.7	1263.7
35°	1188.9	1183.4	1184.1	1123.7	1088.1
37.5°	1101.8	1106.6	1043.5	933.0	886.4
40°	987.2	996.8	871.3	789.0	762.9
42.5°	848.6	851.4	714.2	687.4	670.3
45°	691.5	721.7	601.7	594.1	569.4
47.5°	548.2	604.4	504.2	509.0	450.0
50°	445.9	502.2	437.7	439.8	351.3
52.5°	352.6	407.5	386.2	380.1	275.8
55°	272.4	325.9	333.4	330.7	215.4
57.5°	200.3	258.0	279.9	290.2	166.0
60°	146.8	210.6	231.9	252.5	125.5
62.5°	116.6	182.5	190.0	220.2	97.4
65°	102.2	168.1	150.9	190.7	76.8
67.5°	91.2	159.8	122.8	168.8	67.2
70°	82.3	144.1	106.3	150.9	63.8
72.5°	82.3	126.2	83.7	133.8	64.5
75°	74.8	107.7	57.6	113.2	64.5
77.5°	66.5	91.9	43.2	91.9	60.4
80°	57.6	72.0	35.7	70.7	54.2
82.5°	42.5	54.2	30.9	52.8	43.9
85°	27.4	44.6	31.6	38.4	30.9
87.5°	13.0	22.6	19.9	19.2	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)