

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: P291509

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291509
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3017.0 lumens
Efficiency: N/A
Efficacy: 112.3 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

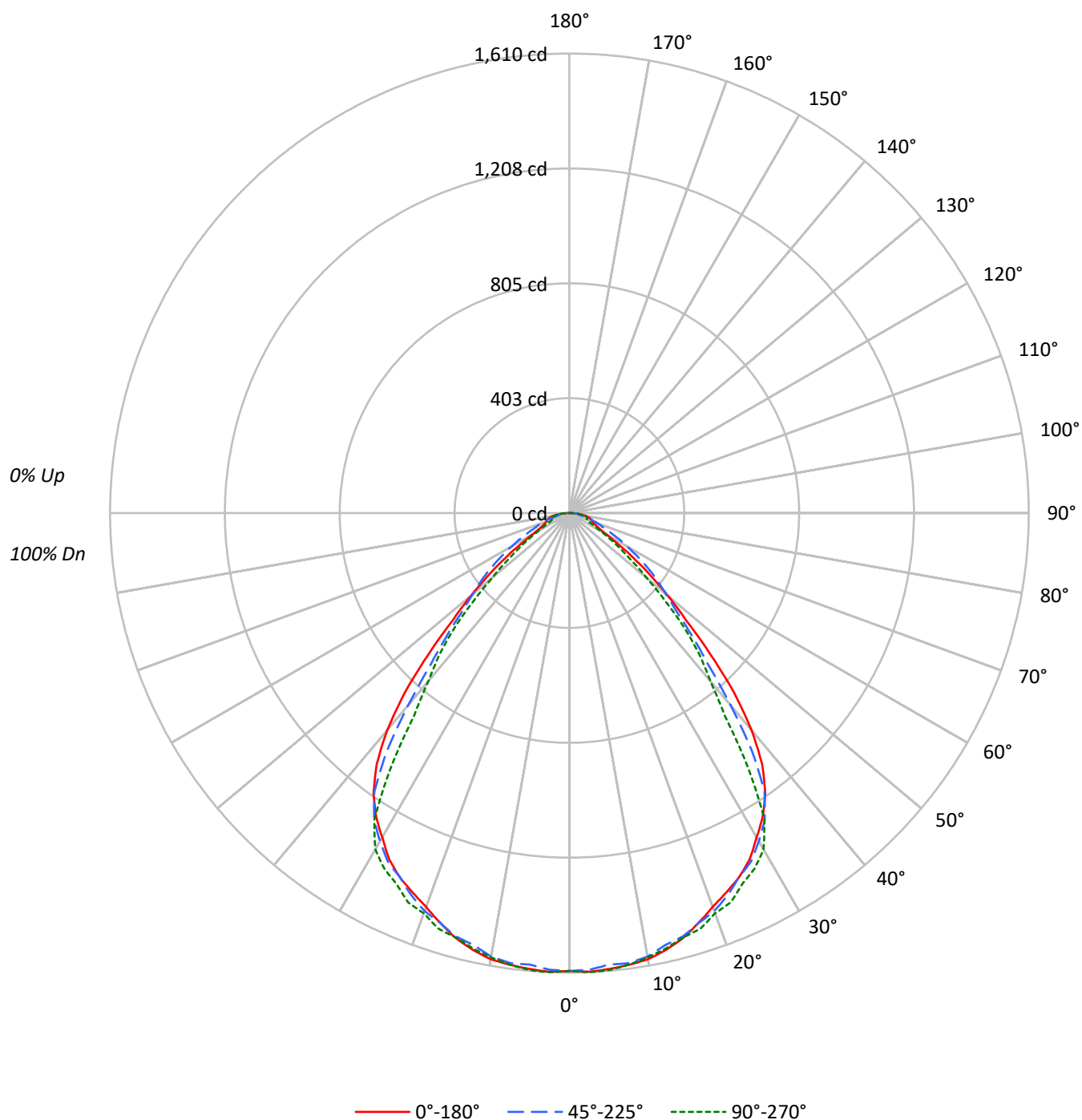
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4317	4317	4317
5°	4332	4291	4341
10°	4338	4312	4320
15°	4294	4279	4289
20°	4205	4250	4274
25°	4179	4177	4257
30°	4077	4127	4227
35°	3932	3916	3598
40°	3491	3081	2698
45°	2649	2305	2181
50°	1879	1845	1480
55°	1286	1574	1018
60°	795	1256	680
65°	655	967	493
70°	652	842	505
75°	783	603	675
80°	899	556	846
85°	852	982	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	5.0
10°-20°	434.5	14.4
20°-30°	653.4	21.7
30°-40°	712.3	23.6
40°-50°	498.7	16.5
50°-60°	282.3	9.4
60°-70°	154.5	5.1
70°-80°	93.6	3.1
80°-90°	35.5	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°	1240.1	41.1
0°-40°	1952.3	64.7
0°-60°	2733.4	90.6
0°-90°	3017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1601	1588	1607	1607	153
15°	1542	1537	1536	1558	1539	434
25°	1408	1410	1407	1439	1434	646
35°	1197	1191	1192	1131	1095	737
45°	696	726	606	598	573	541
55°	274	328	336	333	217	251
65°	103	169	152	192	77	106
75°	75	108	58	114	65	78
85°	28	45	32	39	31	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.3	1604.3	1604.3	1604.3	1604.3
2.5°	1608.5	1606.4	1601.6	1611.2	1610.5
5°	1603.6	1600.9	1588.4	1607.1	1607.1
7.5°	1596.7	1589.8	1590.5	1600.9	1596.0
10°	1587.7	1576.0	1578.1	1580.8	1580.8
12.5°	1567.0	1556.0	1550.5	1559.4	1562.2
15°	1541.5	1537.3	1536.0	1558.1	1539.4
17.5°	1505.6	1514.5	1506.3	1524.2	1527.0
20°	1468.3	1485.5	1484.2	1496.6	1492.4
22.5°	1437.9	1448.9	1448.9	1464.1	1476.6
25°	1407.5	1410.3	1406.8	1439.3	1433.7
27.5°	1368.1	1366.1	1377.1	1393.7	1404.7
30°	1312.2	1312.9	1328.1	1350.2	1360.5
32.5°	1261.1	1254.9	1273.5	1283.2	1272.1
35°	1196.9	1191.3	1192.0	1131.2	1095.3
37.5°	1109.1	1114.0	1050.4	939.3	892.3
40°	993.8	1003.5	877.1	794.2	768.0
42.5°	854.3	857.1	718.9	692.0	674.7
45°	696.2	726.5	605.7	598.1	573.2
47.5°	551.8	608.4	507.6	512.4	453.1
50°	448.9	505.5	440.6	442.7	353.6
52.5°	355.0	410.2	388.8	382.6	277.6
55°	274.2	328.0	335.6	332.9	216.9
57.5°	201.7	259.7	281.8	292.1	167.1
60°	147.8	212.0	233.4	254.2	126.4
62.5°	117.4	183.7	191.3	221.7	98.1
65°	102.9	169.2	151.9	192.0	77.4
67.5°	91.9	160.9	123.6	169.9	67.7
70°	82.9	145.0	107.0	151.9	64.2
72.5°	82.9	127.1	84.3	134.7	64.9
75°	75.3	108.4	58.0	114.0	64.9
77.5°	67.0	92.5	43.5	92.5	60.8
80°	58.0	72.5	35.9	71.1	54.6
82.5°	42.8	54.6	31.1	53.2	44.2
85°	27.6	44.9	31.8	38.7	31.1
87.5°	13.1	22.8	20.0	19.3	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)