

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: P291519

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291519
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-LD5-40-A19/156-UNV-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3116.0 lumens
Efficiency: N/A
Efficacy: 92.8 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

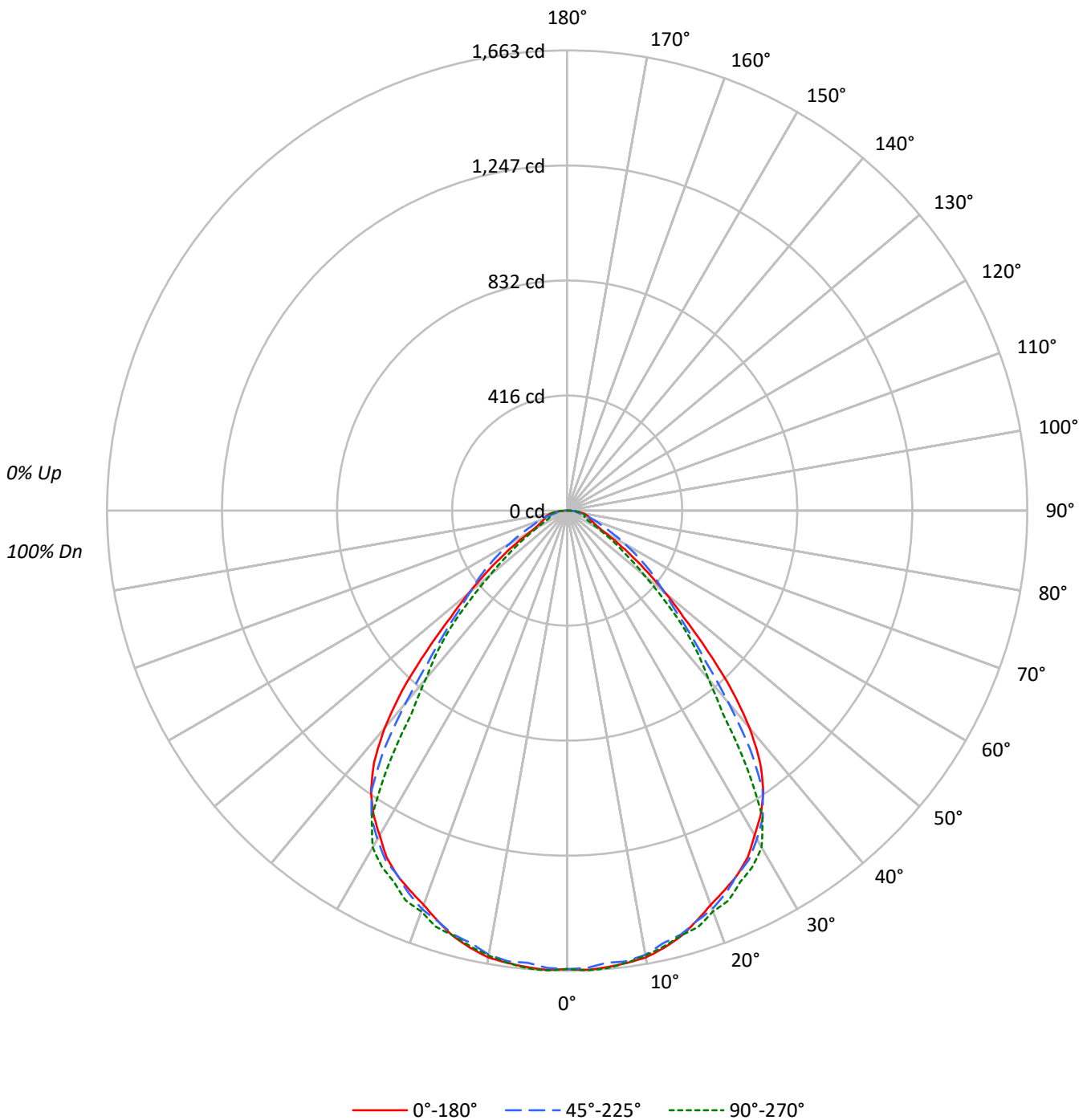
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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	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°	4459	4459	4459
5°	4474	4432	4484
10°	4481	4454	4461
15°	4435	4420	4429
20°	4342	4390	4414
25°	4316	4314	4397
30°	4211	4262	4366
35°	4061	4044	3716
40°	3606	3182	2786
45°	2736	2381	2253
50°	1941	1905	1529
55°	1329	1627	1051
60°	821	1298	702
65°	677	999	509
70°	673	870	522
75°	808	623	697
80°	928	575	872
85°	880	1013	991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	5.0
10°-20°	448.7	14.4
20°-30°	674.8	21.7
30°-40°	735.7	23.6
40°-50°	515.1	16.5
50°-60°	291.6	9.4
60°-70°	159.6	5.1
70°-80°	96.7	3.1
80°-90°	36.7	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°	1280.8	41.1
0°-40°	2016.4	64.7
0°-60°	2823.1	90.6
0°-90°	3116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1656	1653	1641	1660	1660	158
15°	1592	1588	1586	1609	1590	448
25°	1454	1456	1453	1486	1481	668
35°	1236	1230	1231	1168	1131	762
45°	719	750	626	618	592	558
55°	283	339	347	344	224	259
65°	106	175	157	198	80	109
75°	78	112	60	118	67	81
85°	28	46	33	40	32	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.0	1657.0	1657.0	1657.0	1657.0
2.5°	1661.2	1659.1	1654.1	1664.1	1663.4
5°	1656.3	1653.4	1640.6	1659.8	1659.8
7.5°	1649.1	1642.0	1642.7	1653.4	1648.4
10°	1639.8	1627.7	1629.9	1632.7	1632.7
12.5°	1618.5	1607.0	1601.3	1610.6	1613.5
15°	1592.1	1587.8	1586.4	1609.2	1589.9
17.5°	1555.0	1564.2	1555.7	1574.2	1577.1
20°	1516.4	1534.3	1532.9	1545.7	1541.4
22.5°	1485.1	1496.5	1496.5	1512.2	1525.0
25°	1453.7	1456.5	1453.0	1486.5	1480.8
27.5°	1413.0	1410.9	1422.3	1439.4	1450.8
30°	1355.2	1356.0	1371.7	1394.5	1405.2
32.5°	1302.5	1296.0	1315.3	1325.3	1313.9
35°	1236.1	1230.4	1231.1	1168.4	1131.3
37.5°	1145.5	1150.5	1084.9	970.1	921.6
40°	1026.4	1036.4	905.9	820.3	793.2
42.5°	882.3	885.2	742.5	714.7	696.9
45°	719.0	750.4	625.6	617.7	592.0
47.5°	569.9	628.4	524.3	529.3	467.9
50°	463.6	522.1	455.1	457.2	365.2
52.5°	366.6	423.7	401.6	395.2	286.7
55°	283.2	338.8	346.7	343.8	224.0
57.5°	208.3	268.2	291.0	301.7	172.6
60°	152.6	219.0	241.1	262.5	130.5
62.5°	121.3	189.7	197.6	229.0	101.3
65°	106.3	174.8	156.9	198.3	79.9
67.5°	94.9	166.2	127.7	175.5	69.9
70°	85.6	149.8	110.6	156.9	66.3
72.5°	85.6	131.2	87.0	139.1	67.0
75°	77.7	112.0	59.9	117.7	67.0
77.5°	69.2	95.6	44.9	95.6	62.8
80°	59.9	74.9	37.1	73.5	56.3
82.5°	44.2	56.3	32.1	54.9	45.7
85°	28.5	46.4	32.8	39.9	32.1
87.5°	13.6	23.5	20.7	20.0	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)