

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: P291507

Luminaire Tested: **14GR-LD5-32-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291507
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2984.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

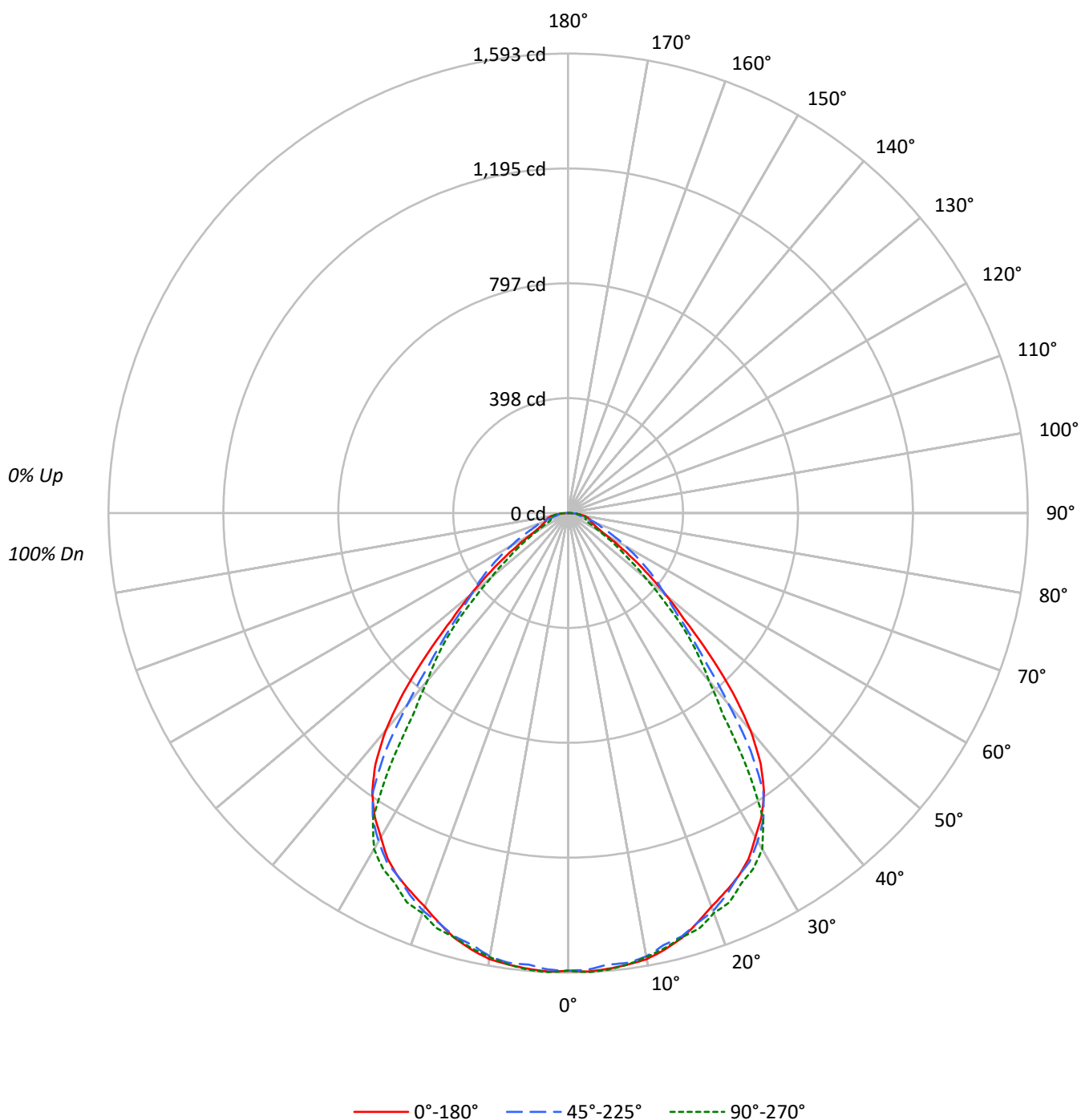
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4270	4270	4270
5°	4284	4244	4294
10°	4291	4265	4273
15°	4247	4232	4242
20°	4159	4204	4227
25°	4133	4131	4211
30°	4033	4081	4181
35°	3889	3873	3559
40°	3453	3047	2668
45°	2620	2280	2157
50°	1859	1824	1464
55°	1272	1558	1006
60°	787	1243	673
65°	648	957	487
70°	645	833	500
75°	775	597	667
80°	890	550	837
85°	843	969	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	5.0
10°-20°	429.7	14.4
20°-30°	646.2	21.7
30°-40°	704.5	23.6
40°-50°	493.3	16.5
50°-60°	279.2	9.4
60°-70°	152.8	5.1
70°-80°	92.6	3.1
80°-90°	35.1	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°	1226.5	41.1
0°-40°	1931.0	64.7
0°-60°	2703.5	90.6
0°-90°	2984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1586	1583	1571	1590	1590	151
15°	1525	1520	1519	1541	1523	429
25°	1392	1395	1391	1424	1418	639
35°	1184	1178	1179	1119	1083	729
45°	688	719	599	592	567	535
55°	271	324	332	329	214	248
65°	102	167	150	190	76	105
75°	74	107	57	113	64	77
85°	27	44	31	38	31	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1586.8	1586.8	1586.8	1586.8	1586.8
2.5°	1590.9	1588.8	1584.0	1593.6	1592.9
5°	1586.1	1583.4	1571.1	1589.5	1589.5
7.5°	1579.3	1572.4	1573.1	1583.4	1578.6
10°	1570.4	1558.8	1560.8	1563.6	1563.6
12.5°	1549.9	1539.0	1533.5	1542.4	1545.1
15°	1524.6	1520.5	1519.2	1541.0	1522.6
17.5°	1489.1	1498.0	1489.8	1507.5	1510.3
20°	1452.2	1469.3	1467.9	1480.2	1476.1
22.5°	1422.2	1433.1	1433.1	1448.1	1460.4
25°	1392.1	1394.8	1391.4	1423.5	1418.1
27.5°	1353.2	1351.1	1362.0	1378.4	1389.4
30°	1297.8	1298.5	1313.5	1335.4	1345.7
32.5°	1247.3	1241.1	1259.6	1269.1	1258.2
35°	1183.8	1178.3	1179.0	1118.9	1083.4
37.5°	1097.0	1101.8	1039.0	929.0	882.5
40°	982.9	992.5	867.5	785.5	759.6
42.5°	845.0	847.7	711.1	684.4	667.4
45°	688.5	718.6	599.1	591.5	566.9
47.5°	545.8	601.8	502.1	506.8	448.1
50°	444.0	500.0	435.8	437.8	349.7
52.5°	351.1	405.7	384.6	378.4	274.6
55°	271.2	324.5	332.0	329.2	214.5
57.5°	199.5	256.8	278.7	288.9	165.3
60°	146.2	209.7	230.9	251.4	125.0
62.5°	116.1	181.7	189.2	219.3	97.0
65°	101.8	167.4	150.3	189.9	76.5
67.5°	90.8	159.2	122.3	168.0	66.9
70°	82.0	143.4	105.9	150.3	63.5
72.5°	82.0	125.7	83.3	133.2	64.2
75°	74.5	107.2	57.4	112.7	64.2
77.5°	66.3	91.5	43.0	91.5	60.1
80°	57.4	71.7	35.5	70.4	54.0
82.5°	42.4	54.0	30.7	52.6	43.7
85°	27.3	44.4	31.4	38.3	30.7
87.5°	13.0	22.5	19.8	19.1	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)