

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: P294115

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3197.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

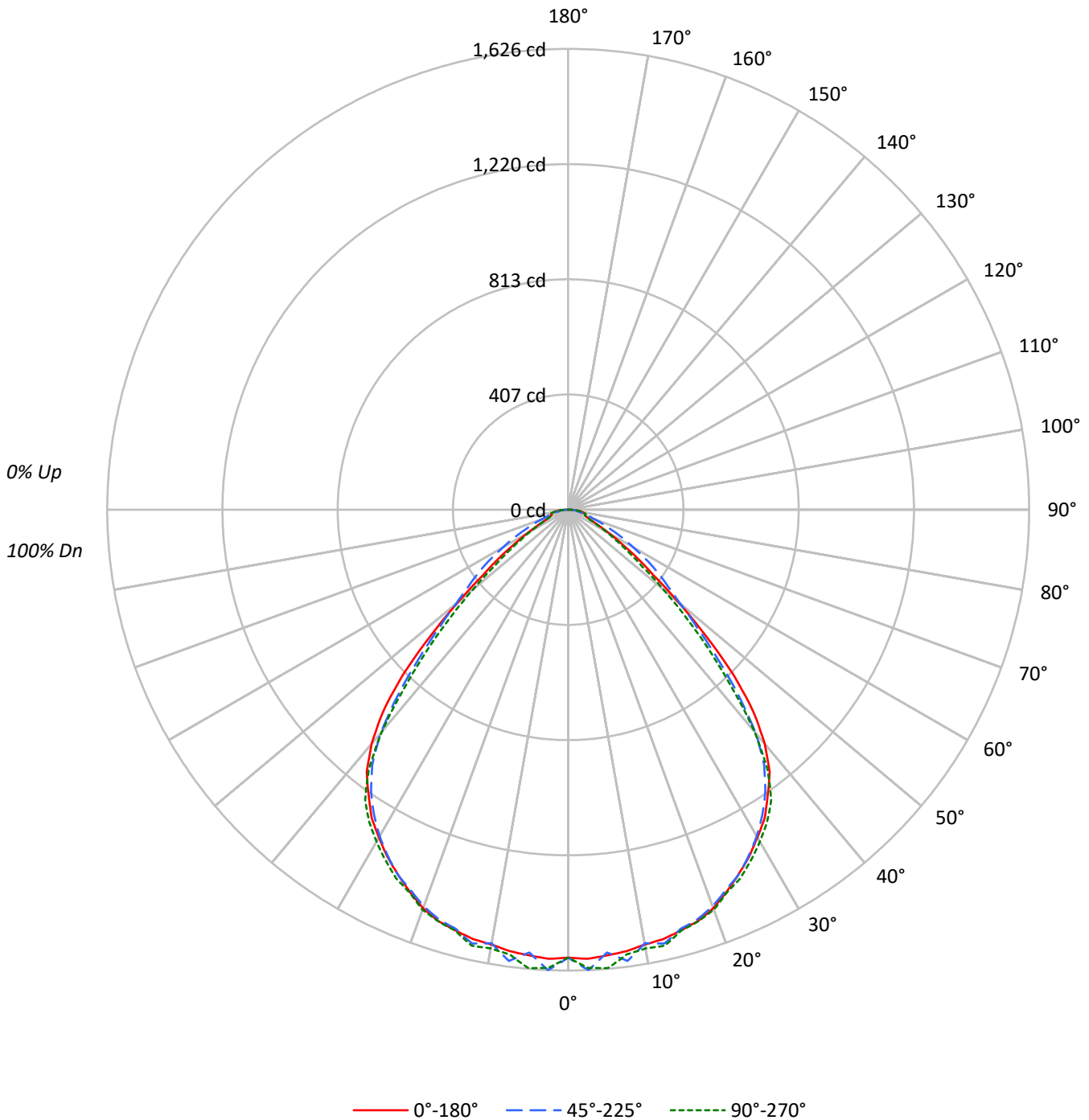
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P294115

CATALOG NUMBER: 24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P294115

CATALOG NUMBER: 24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K

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	103	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	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2127	2127	2127
5°	2132	2118	2193
10°	2128	2122	2148
15°	2141	2133	2142
20°	2142	2133	2151
25°	2109	2111	2131
30°	2074	2068	2101
35°	2016	1991	2051
40°	1893	1808	1798
45°	1569	1419	1346
50°	1055	1077	920
55°	696	903	603
60°	446	713	413
65°	288	544	280
70°	255	390	255
75°	329	310	331
80°	402	267	422
85°	468	397	491



TEST NUMBER: P294115

CATALOG NUMBER: 24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	4.7
10°-20°	434.6	13.6
20°-30°	654.3	20.5
30°-40°	758.4	23.7
40°-50°	592.4	18.5
50°-60°	316.3	9.9
60°-70°	162.7	5.1
70°-80°	92.0	2.9
80°-90°	34.9	1.1
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°	1240.3	38.8
0°-40°	1998.6	62.5
0°-60°	2907.4	90.9
0°-90°	3197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1581	1581	1581	1581	1581	
5°	1578	1622	1568	1611	1623	150
15°	1537	1546	1532	1541	1538	434
25°	1421	1416	1422	1420	1436	655
35°	1227	1221	1212	1236	1249	765
45°	825	825	746	739	708	621
55°	297	375	385	347	257	274
65°	90	188	171	188	88	99
75°	63	119	60	111	64	64
85°	30	40	26	40	32	31
90°	0	0	0	0	0	



TEST NUMBER: P294115

CATALOG NUMBER: 24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.8	1580.8	1580.8	1580.8	1580.8
2.5°	1586.0	1614.7	1626.0	1612.1	1618.3
5°	1578.3	1622.4	1568.0	1611.1	1623.4
7.5°	1571.1	1566.4	1606.0	1564.9	1582.4
10°	1557.7	1560.8	1553.1	1582.4	1572.1
12.5°	1551.6	1569.5	1568.0	1553.1	1575.7
15°	1536.7	1546.4	1531.5	1541.3	1537.7
17.5°	1521.8	1517.2	1515.6	1519.7	1523.3
20°	1496.1	1480.7	1489.9	1491.0	1502.3
22.5°	1459.1	1449.9	1452.0	1461.2	1462.2
25°	1420.6	1416.0	1421.7	1419.6	1435.5
27.5°	1380.6	1374.4	1378.0	1385.7	1395.5
30°	1334.9	1333.4	1330.8	1337.5	1352.4
32.5°	1289.7	1277.4	1275.3	1289.2	1306.1
35°	1227.1	1221.4	1212.2	1236.3	1248.6
37.5°	1167.5	1150.1	1135.2	1149.6	1154.7
40°	1077.7	1064.3	1029.4	1031.0	1023.8
42.5°	967.3	957.5	890.8	879.0	859.0
45°	824.6	825.1	746.0	739.3	707.5
47.5°	658.7	688.0	619.2	611.5	564.3
50°	504.2	557.1	514.4	502.1	439.5
52.5°	378.4	455.9	442.6	415.9	329.6
55°	296.8	375.3	385.1	347.1	257.2
57.5°	223.3	309.1	325.0	293.7	198.7
60°	165.8	260.3	264.9	252.6	153.5
62.5°	123.2	221.3	215.1	216.7	114.0
65°	90.4	188.4	171.0	187.9	87.8
67.5°	73.9	163.3	133.0	162.8	71.4
70°	64.7	144.8	99.1	143.2	64.7
72.5°	62.6	133.0	78.6	127.3	63.2
75°	63.2	118.6	59.6	110.9	63.7
77.5°	58.0	97.6	45.2	94.5	60.6
80°	51.9	73.9	34.4	75.0	54.4
82.5°	44.2	53.9	27.7	55.4	45.7
85°	30.3	39.5	25.7	39.5	31.8
87.5°	14.4	23.6	15.9	22.6	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)