

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: P292696

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

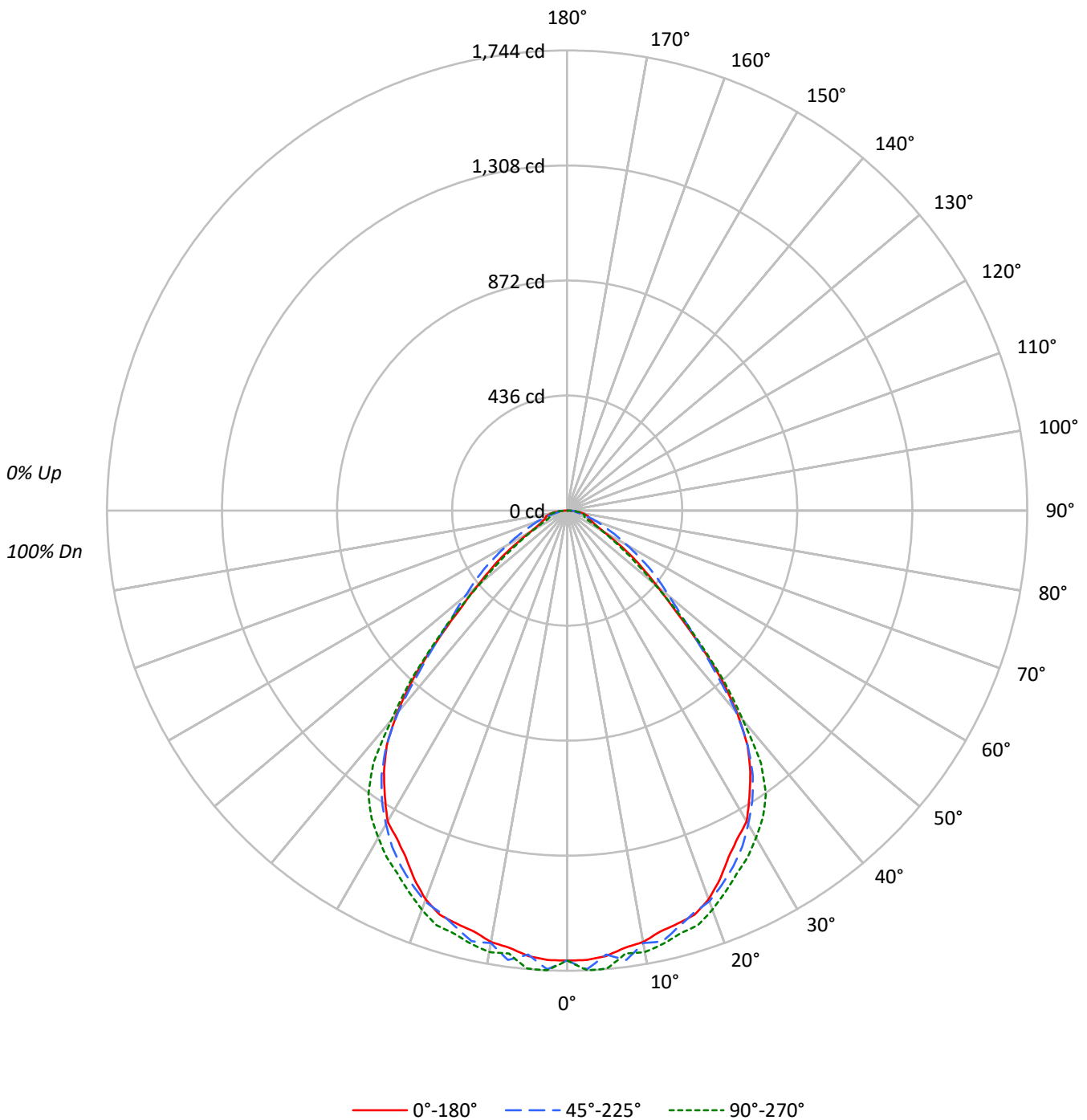
Input Watts (W): 32.085
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	102	99	101	98	96		97	95	93		93	91	90	88
2	103	96	90	85	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	79	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	75	68	64		72	67	63		70	66	62	60
5	82	71	63	58	80	70	63	57	68	62	57		66	61	56		64	59	56	54
6	77	65	57	51	75	64	57	51	62	56	51		61	55	50		59	54	50	48
7	72	60	52	46	70	59	51	46	57	51	46		56	50	46		55	49	45	44
8	67	55	47	42	66	54	47	42	53	46	42		52	46	41		51	45	41	40
9	63	51	43	38	62	50	43	38	49	43	38		48	42	38		47	42	38	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	39	35	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4589	4589	4589
5°	4577	4563	4706
10°	4535	4548	4643
15°	4515	4549	4622
20°	4491	4513	4610
25°	4299	4420	4512
30°	4228	4266	4448
35°	3976	4027	4313
40°	3523	3499	3637
45°	2632	2638	2711
50°	1852	2107	1794
55°	1367	1780	1226
60°	855	1406	801
65°	697	1114	560
70°	692	928	552
75°	858	681	713
80°	956	538	872
85°	951	1000	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	5.0
10°-20°	462.4	14.1
20°-30°	684.8	20.9
30°-40°	767.1	23.4
40°-50°	563.7	17.2
50°-60°	315.0	9.6
60°-70°	175.6	5.4
70°-80°	103.2	3.2
80°-90°	37.9	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°	1309.5	40.0
0°-40°	2076.6	63.5
0°-60°	2955.3	90.3
0°-90°	3272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1694	1726	1689	1724	1742	160
15°	1620	1630	1633	1658	1659	458
25°	1448	1459	1489	1510	1520	671
35°	1210	1211	1226	1281	1313	750
45°	692	748	693	742	712	540
55°	291	355	379	378	261	260
65°	110	194	175	224	88	113
75°	82	116	66	132	69	83
85°	31	46	32	42	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.3	1705.3	1705.3	1705.3	1705.3
2.5°	1704.5	1719.9	1740.0	1742.3	1743.8
5°	1694.5	1726.1	1689.1	1723.8	1742.3
7.5°	1671.4	1690.6	1717.6	1682.9	1692.9
10°	1659.8	1664.4	1664.4	1707.6	1699.1
12.5°	1633.6	1664.4	1672.1	1663.6	1682.1
15°	1620.5	1630.5	1632.8	1657.5	1659.0
17.5°	1605.8	1603.5	1598.1	1615.8	1647.5
20°	1568.1	1559.6	1575.8	1597.3	1609.7
22.5°	1512.5	1514.9	1534.1	1551.9	1565.7
25°	1447.8	1459.4	1488.6	1509.5	1519.5
27.5°	1399.2	1416.2	1436.2	1460.9	1480.9
30°	1360.7	1359.1	1373.0	1408.5	1431.6
32.5°	1285.9	1291.3	1305.9	1348.3	1380.7
35°	1210.3	1211.1	1225.8	1281.3	1312.9
37.5°	1123.2	1117.1	1125.5	1185.7	1206.5
40°	1003.0	1004.5	996.0	1038.4	1035.3
42.5°	862.7	875.0	831.1	886.6	882.7
45°	691.5	747.8	693.1	742.4	712.3
47.5°	545.8	629.1	583.6	619.8	563.5
50°	442.5	528.1	503.4	519.6	428.6
52.5°	363.1	432.5	440.2	444.1	334.6
55°	291.4	354.6	379.3	378.5	261.3
57.5°	215.1	288.3	316.8	328.4	198.1
60°	158.8	239.8	261.3	286.8	148.8
62.5°	128.0	210.5	215.9	251.3	113.3
65°	109.5	194.3	175.0	224.3	87.9
67.5°	97.1	181.2	142.6	200.4	74.8
70°	87.9	161.1	118.0	179.6	70.2
72.5°	85.6	137.2	91.0	160.4	69.4
75°	82.5	116.4	65.5	131.8	68.6
77.5°	70.9	99.4	47.0	101.8	64.0
80°	61.7	79.4	34.7	76.3	56.3
82.5°	47.8	60.1	30.8	57.8	45.5
85°	30.8	45.5	32.4	41.6	31.6
87.5°	14.6	25.4	23.1	22.4	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)