

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: P292584

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292584
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-LD5-32-A19/156-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3268.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

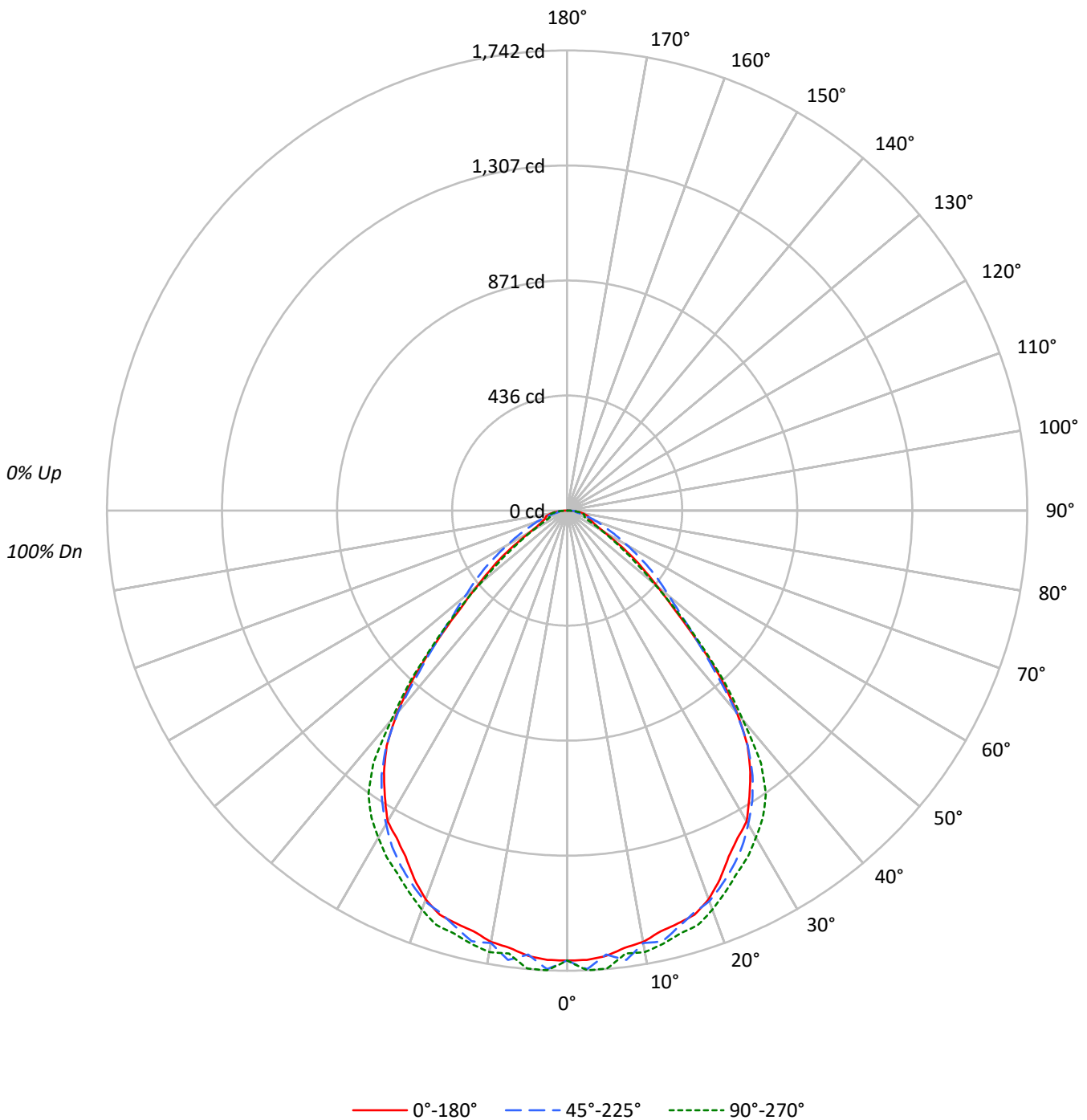
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4583	4583	4583
5°	4572	4557	4700
10°	4530	4542	4637
15°	4509	4543	4616
20°	4485	4507	4604
25°	4293	4415	4506
30°	4223	4261	4443
35°	3971	4022	4308
40°	3519	3495	3633
45°	2629	2634	2708
50°	1850	2105	1792
55°	1366	1777	1225
60°	854	1405	800
65°	696	1113	559
70°	691	927	552
75°	857	680	712
80°	955	536	871
85°	951	997	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	5.0
10°-20°	461.8	14.1
20°-30°	684.0	20.9
30°-40°	766.2	23.4
40°-50°	563.0	17.2
50°-60°	314.7	9.6
60°-70°	175.4	5.4
70°-80°	103.0	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°	1307.9	40.0
0°-40°	2074.1	63.5
0°-60°	2951.7	90.3
0°-90°	3268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3268.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1703	1703	1703	1703	1703	
5°	1692	1724	1687	1722	1740	160
15°	1618	1628	1631	1656	1657	457
25°	1446	1458	1487	1508	1518	670
35°	1209	1210	1224	1280	1311	749
45°	691	747	692	742	712	540
55°	291	354	379	378	261	260
65°	109	194	175	224	88	113
75°	82	116	65	132	68	83
85°	31	45	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°	1703.2	1703.2	1703.2	1703.2	1703.2
2.5°	1702.4	1717.8	1737.8	1740.1	1741.7
5°	1692.4	1724.0	1687.0	1721.7	1740.1
7.5°	1669.3	1688.6	1715.5	1680.9	1690.9
10°	1657.8	1662.4	1662.4	1705.5	1697.0
12.5°	1631.6	1662.4	1670.1	1661.6	1680.1
15°	1618.5	1628.5	1630.8	1655.5	1657.0
17.5°	1603.9	1601.6	1596.2	1613.9	1645.4
20°	1566.1	1557.7	1573.8	1595.4	1607.7
22.5°	1510.7	1513.0	1532.3	1550.0	1563.8
25°	1446.0	1457.6	1486.8	1507.6	1517.6
27.5°	1397.5	1414.4	1434.5	1459.1	1479.1
30°	1359.0	1357.5	1371.3	1406.7	1429.8
32.5°	1284.3	1289.7	1304.3	1346.7	1379.0
35°	1208.9	1209.6	1224.3	1279.7	1311.3
37.5°	1121.9	1115.7	1124.2	1184.2	1205.0
40°	1001.7	1003.3	994.8	1037.2	1034.1
42.5°	861.6	873.9	830.0	885.5	881.6
45°	690.7	746.9	692.2	741.5	711.5
47.5°	545.1	628.3	582.9	619.1	562.9
50°	442.0	527.4	502.8	519.0	428.1
52.5°	362.7	432.0	439.7	443.5	334.2
55°	291.1	354.2	378.8	378.1	261.0
57.5°	214.8	288.0	316.5	328.0	197.9
60°	158.6	239.5	261.0	286.4	148.6
62.5°	127.8	210.2	215.6	251.0	113.2
65°	109.3	194.0	174.8	224.1	87.8
67.5°	97.0	180.9	142.4	200.2	74.7
70°	87.8	160.9	117.8	179.4	70.1
72.5°	85.5	137.1	90.9	160.2	69.3
75°	82.4	116.3	65.4	131.7	68.5
77.5°	70.8	99.3	47.0	101.6	63.9
80°	61.6	79.3	34.6	76.2	56.2
82.5°	47.7	60.1	30.8	57.7	45.4
85°	30.8	45.4	32.3	41.6	31.6
87.5°	14.6	25.4	23.1	22.3	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)