

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: P292587

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292587
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3317.0 lumens
Efficiency: N/A
Efficacy: 129.2 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

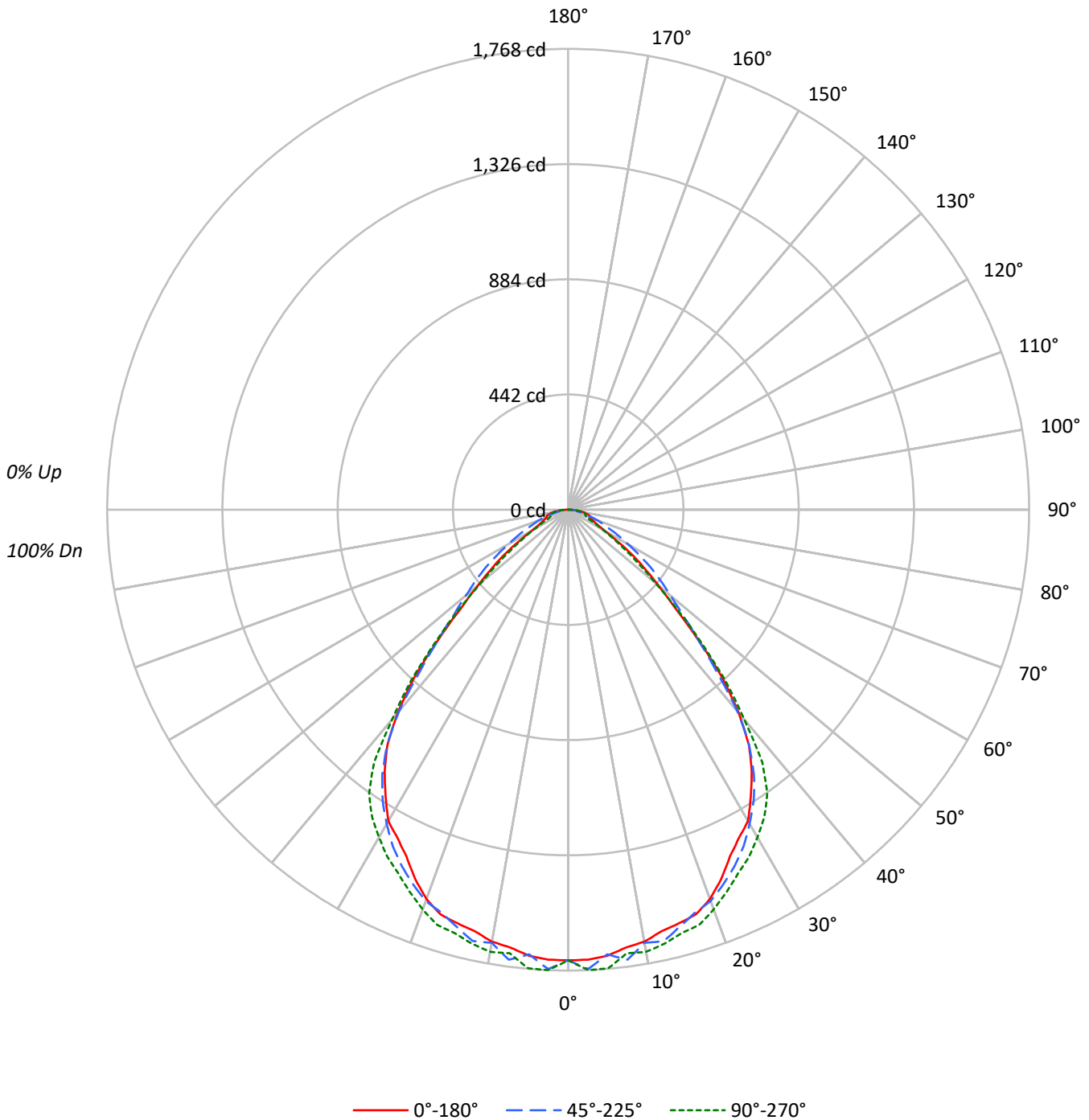
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4652	4652	4652
5°	4640	4625	4771
10°	4598	4611	4707
15°	4577	4612	4685
20°	4552	4574	4673
25°	4358	4481	4574
30°	4286	4325	4510
35°	4031	4082	4372
40°	3572	3547	3687
45°	2668	2674	2748
50°	1878	2136	1819
55°	1386	1804	1243
60°	866	1426	812
65°	707	1130	567
70°	701	941	559
75°	869	690	724
80°	969	545	885
85°	966	1013	988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	5.0
10°-20°	468.7	14.1
20°-30°	694.2	20.9
30°-40°	777.6	23.4
40°-50°	571.4	17.2
50°-60°	319.4	9.6
60°-70°	178.0	5.4
70°-80°	104.6	3.2
80°-90°	38.4	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°	1327.5	40.0
0°-40°	2105.2	63.5
0°-60°	2995.9	90.3
0°-90°	3317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1718	1750	1712	1748	1766	163
15°	1643	1653	1655	1680	1682	464
25°	1468	1479	1509	1530	1540	680
35°	1227	1228	1243	1299	1331	760
45°	701	758	703	753	722	548
55°	295	360	384	384	265	264
65°	111	197	177	227	89	115
75°	84	118	66	134	70	84
85°	31	46	33	42	32	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.7	1728.7	1728.7	1728.7	1728.7
2.5°	1727.9	1743.6	1763.9	1766.2	1767.8
5°	1717.8	1749.8	1712.3	1747.5	1766.2
7.5°	1694.3	1713.9	1741.2	1706.1	1716.2
10°	1682.6	1687.3	1687.3	1731.1	1722.5
12.5°	1656.0	1687.3	1695.1	1686.5	1705.3
15°	1642.8	1652.9	1655.3	1680.3	1681.8
17.5°	1627.9	1625.6	1620.1	1638.1	1670.1
20°	1589.6	1581.0	1597.4	1619.3	1631.8
22.5°	1533.3	1535.7	1555.2	1573.2	1587.3
25°	1467.7	1479.4	1509.1	1530.2	1540.4
27.5°	1418.5	1435.7	1456.0	1481.0	1501.3
30°	1379.4	1377.8	1391.9	1427.8	1451.3
32.5°	1303.6	1309.1	1323.9	1366.9	1399.7
35°	1227.0	1227.8	1242.6	1298.9	1330.9
37.5°	1138.7	1132.4	1141.0	1202.0	1223.1
40°	1016.8	1018.3	1009.7	1052.7	1049.6
42.5°	874.5	887.0	842.5	898.8	894.8
45°	701.0	758.1	702.6	752.6	722.1
47.5°	553.3	637.7	591.6	628.3	571.3
50°	448.6	535.3	510.3	526.7	434.5
52.5°	368.1	438.4	446.2	450.2	339.2
55°	295.4	359.5	384.5	383.7	264.9
57.5°	218.0	292.3	321.2	332.9	200.9
60°	161.0	243.1	264.9	290.7	150.8
62.5°	129.7	213.4	218.8	254.8	114.9
65°	111.0	196.9	177.4	227.4	89.1
67.5°	98.5	183.7	144.6	203.2	75.8
70°	89.1	163.3	119.6	182.1	71.1
72.5°	86.7	139.1	92.2	162.6	70.3
75°	83.6	118.0	66.4	133.6	69.6
77.5°	71.9	100.8	47.7	103.2	64.9
80°	62.5	80.5	35.2	77.4	57.1
82.5°	48.5	61.0	31.3	58.6	46.1
85°	31.3	46.1	32.8	42.2	32.0
87.5°	14.8	25.8	23.4	22.7	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)