

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: P292573

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292573
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-LD5-28-A19/156-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2868.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

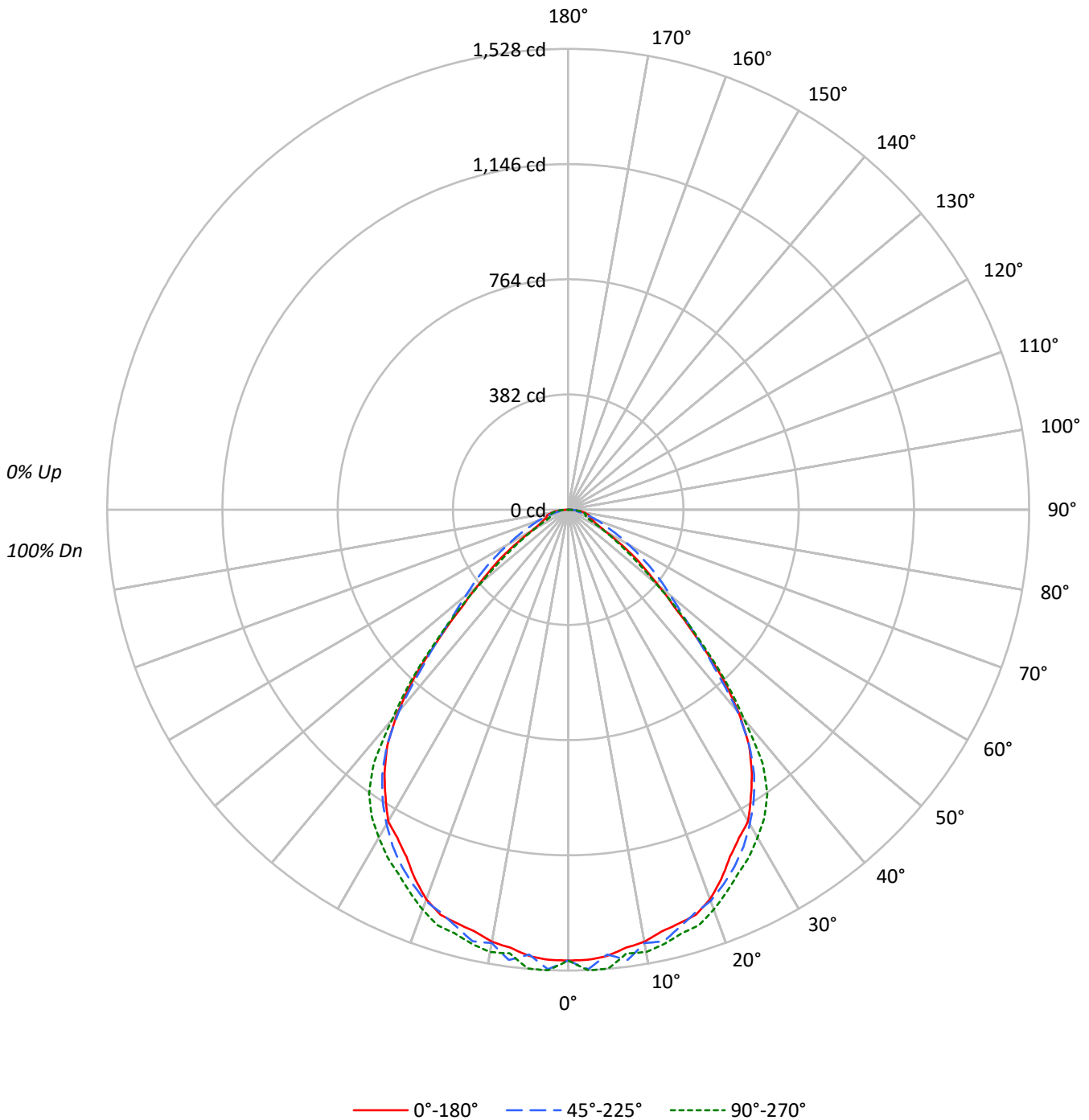
Input Watts (W): 22.32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4022	4022	4022
5°	4012	3999	4125
10°	3976	3986	4069
15°	3957	3987	4051
20°	3936	3955	4040
25°	3768	3874	3955
30°	3706	3740	3899
35°	3485	3529	3780
40°	3088	3067	3188
45°	2307	2312	2376
50°	1624	1847	1573
55°	1198	1560	1075
60°	749	1233	702
65°	611	977	490
70°	606	814	484
75°	752	597	625
80°	838	471	764
85°	834	877	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	5.0
10°-20°	405.3	14.1
20°-30°	600.3	20.9
30°-40°	672.4	23.4
40°-50°	494.1	17.2
50°-60°	276.2	9.6
60°-70°	153.9	5.4
70°-80°	90.4	3.2
80°-90°	33.2	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°	1147.8	40.0
0°-40°	1820.2	63.5
0°-60°	2590.4	90.3
0°-90°	2868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1485	1513	1480	1511	1527	141
15°	1420	1429	1431	1453	1454	401
25°	1269	1279	1305	1323	1332	588
35°	1061	1062	1074	1123	1151	657
45°	606	656	608	651	624	474
55°	255	311	332	332	229	228
65°	96	170	153	197	77	99
75°	72	102	57	116	60	73
85°	27	40	28	36	28	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.7	1494.7	1494.7	1494.7	1494.7
2.5°	1494.0	1507.6	1525.1	1527.2	1528.5
5°	1485.3	1513.0	1480.5	1510.9	1527.2
7.5°	1465.0	1481.9	1505.5	1475.1	1483.9
10°	1454.9	1458.9	1458.9	1496.7	1489.3
12.5°	1431.9	1458.9	1465.7	1458.2	1474.4
15°	1420.4	1429.2	1431.2	1452.8	1454.2
17.5°	1407.6	1405.5	1400.8	1416.3	1444.0
20°	1374.4	1367.0	1381.2	1400.1	1410.9
22.5°	1325.8	1327.8	1344.7	1360.3	1372.4
25°	1269.0	1279.2	1304.8	1323.1	1331.9
27.5°	1226.5	1241.3	1258.9	1280.5	1298.1
30°	1192.7	1191.3	1203.5	1234.6	1254.8
32.5°	1127.1	1131.9	1144.7	1181.9	1210.2
35°	1060.9	1061.6	1074.4	1123.1	1150.8
37.5°	984.5	979.1	986.6	1039.3	1057.5
40°	879.1	880.5	873.0	910.2	907.5
42.5°	756.1	767.0	728.4	777.1	773.7
45°	606.1	655.5	607.5	650.7	624.4
47.5°	478.4	551.4	511.5	543.3	494.0
50°	387.9	462.9	441.3	455.4	375.7
52.5°	318.3	379.1	385.8	389.2	293.3
55°	255.4	310.8	332.5	331.8	229.1
57.5°	188.5	252.7	277.7	287.9	173.7
60°	139.2	210.2	229.1	251.4	130.4
62.5°	112.2	184.5	189.2	220.3	99.3
65°	96.0	170.3	153.4	196.6	77.0
67.5°	85.1	158.8	125.0	175.7	65.5
70°	77.0	141.2	103.4	157.4	61.5
72.5°	75.0	120.3	79.7	140.6	60.8
75°	72.3	102.0	57.4	115.6	60.1
77.5°	62.2	87.2	41.2	89.2	56.1
80°	54.1	69.6	30.4	66.9	49.3
82.5°	41.9	52.7	27.0	50.7	39.9
85°	27.0	39.9	28.4	36.5	27.7
87.5°	12.8	22.3	20.3	19.6	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)