

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: P292688

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292688
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-LD5-36-A19/156-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 108.2 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

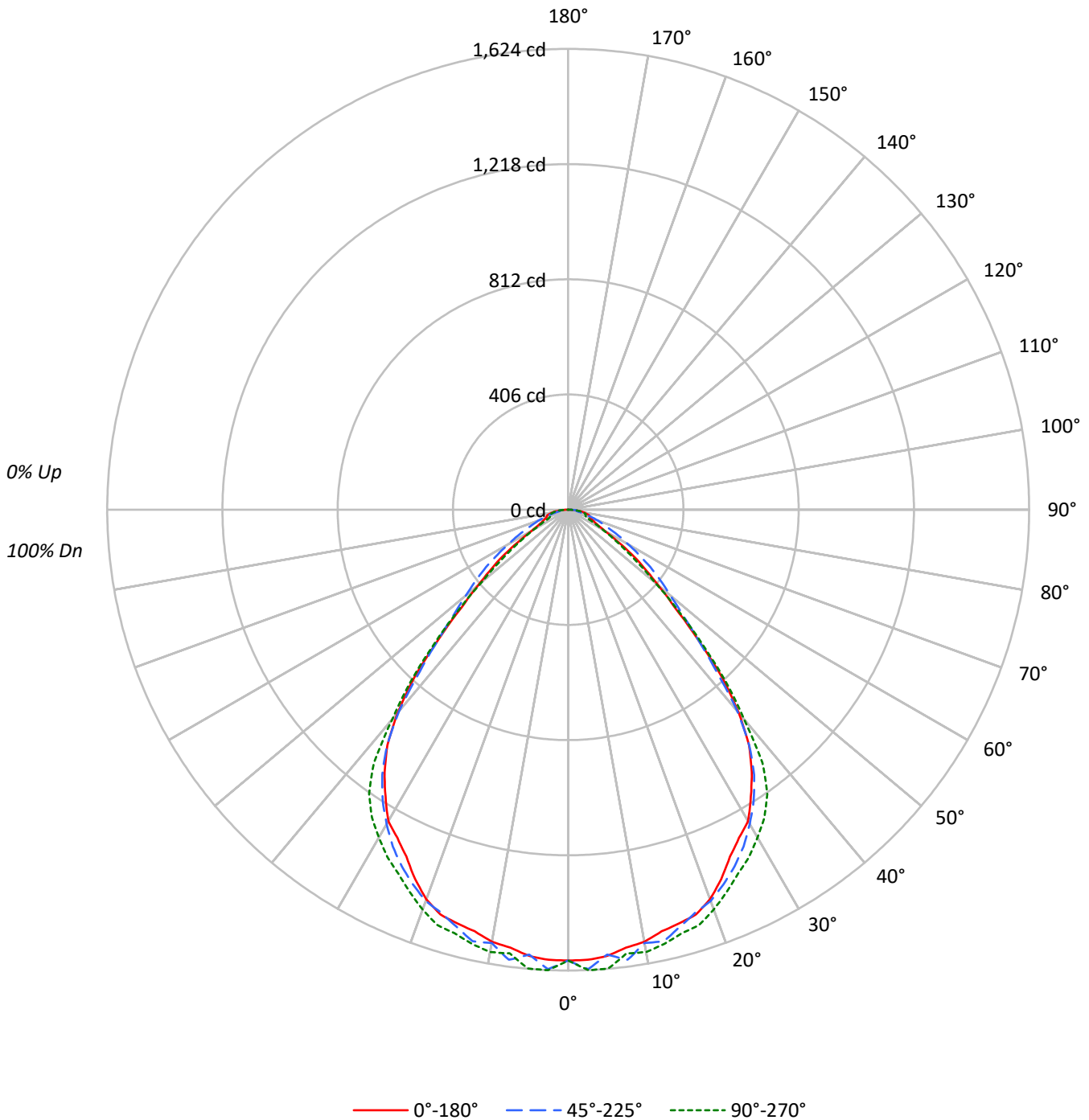
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4275	4275	4275
5°	4264	4250	4384
10°	4225	4237	4325
15°	4205	4237	4305
20°	4183	4204	4294
25°	4005	4117	4203
30°	3938	3974	4144
35°	3704	3751	4018
40°	3282	3259	3388
45°	2452	2457	2525
50°	1726	1963	1672
55°	1274	1658	1142
60°	796	1311	746
65°	649	1038	521
70°	644	865	515
75°	799	634	664
80°	891	501	812
85°	886	932	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	5.0
10°-20°	430.7	14.1
20°-30°	637.9	20.9
30°-40°	714.6	23.4
40°-50°	525.1	17.2
50°-60°	293.5	9.6
60°-70°	163.6	5.4
70°-80°	96.1	3.2
80°-90°	35.3	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°	1219.9	40.0
0°-40°	1934.4	63.5
0°-60°	2753.0	90.3
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1578	1608	1574	1606	1623	149
15°	1510	1519	1521	1544	1545	426
25°	1349	1359	1387	1406	1416	625
35°	1128	1128	1142	1194	1223	698
45°	644	697	646	692	664	503
55°	272	330	353	353	244	242
65°	102	181	163	209	82	105
75°	77	108	61	123	64	77
85°	29	42	30	39	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.5	1588.5	1588.5	1588.5	1588.5
2.5°	1587.8	1602.2	1620.8	1623.0	1624.4
5°	1578.5	1607.9	1573.5	1605.8	1623.0
7.5°	1556.9	1574.9	1600.0	1567.7	1577.0
10°	1546.2	1550.5	1550.5	1590.7	1582.8
12.5°	1521.7	1550.5	1557.7	1549.8	1567.0
15°	1509.5	1518.9	1521.0	1544.0	1545.4
17.5°	1495.9	1493.7	1488.7	1505.2	1534.7
20°	1460.7	1452.8	1467.9	1488.0	1499.5
22.5°	1409.0	1411.2	1429.1	1445.6	1458.5
25°	1348.7	1359.4	1386.7	1406.1	1415.5
27.5°	1303.4	1319.2	1337.9	1360.9	1379.6
30°	1267.5	1266.1	1279.0	1312.0	1333.6
32.5°	1197.9	1202.9	1216.5	1256.0	1286.2
35°	1127.5	1128.2	1141.8	1193.6	1223.0
37.5°	1046.3	1040.6	1048.5	1104.5	1123.9
40°	934.3	935.7	927.8	967.3	964.5
42.5°	803.6	815.1	774.2	825.9	822.3
45°	644.2	696.6	645.6	691.6	663.6
47.5°	508.4	586.0	543.6	577.4	525.0
50°	412.2	491.9	468.9	484.0	399.3
52.5°	338.2	402.9	410.1	413.7	311.7
55°	271.5	330.3	353.3	352.6	243.5
57.5°	200.4	268.6	295.2	305.9	184.6
60°	147.9	223.3	243.5	267.1	138.6
62.5°	119.2	196.1	201.1	234.1	105.6
65°	102.0	181.0	163.0	209.0	81.9
67.5°	90.5	168.8	132.9	186.7	69.7
70°	81.9	150.1	109.9	167.3	65.4
72.5°	79.7	127.8	84.7	149.4	64.6
75°	76.8	108.4	61.0	122.8	63.9
77.5°	66.1	92.6	43.8	94.8	59.6
80°	57.5	74.0	32.3	71.1	52.4
82.5°	44.5	56.0	28.7	53.9	42.4
85°	28.7	42.4	30.2	38.8	29.4
87.5°	13.6	23.7	21.5	20.8	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)