

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: P292588

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292588
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3269.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

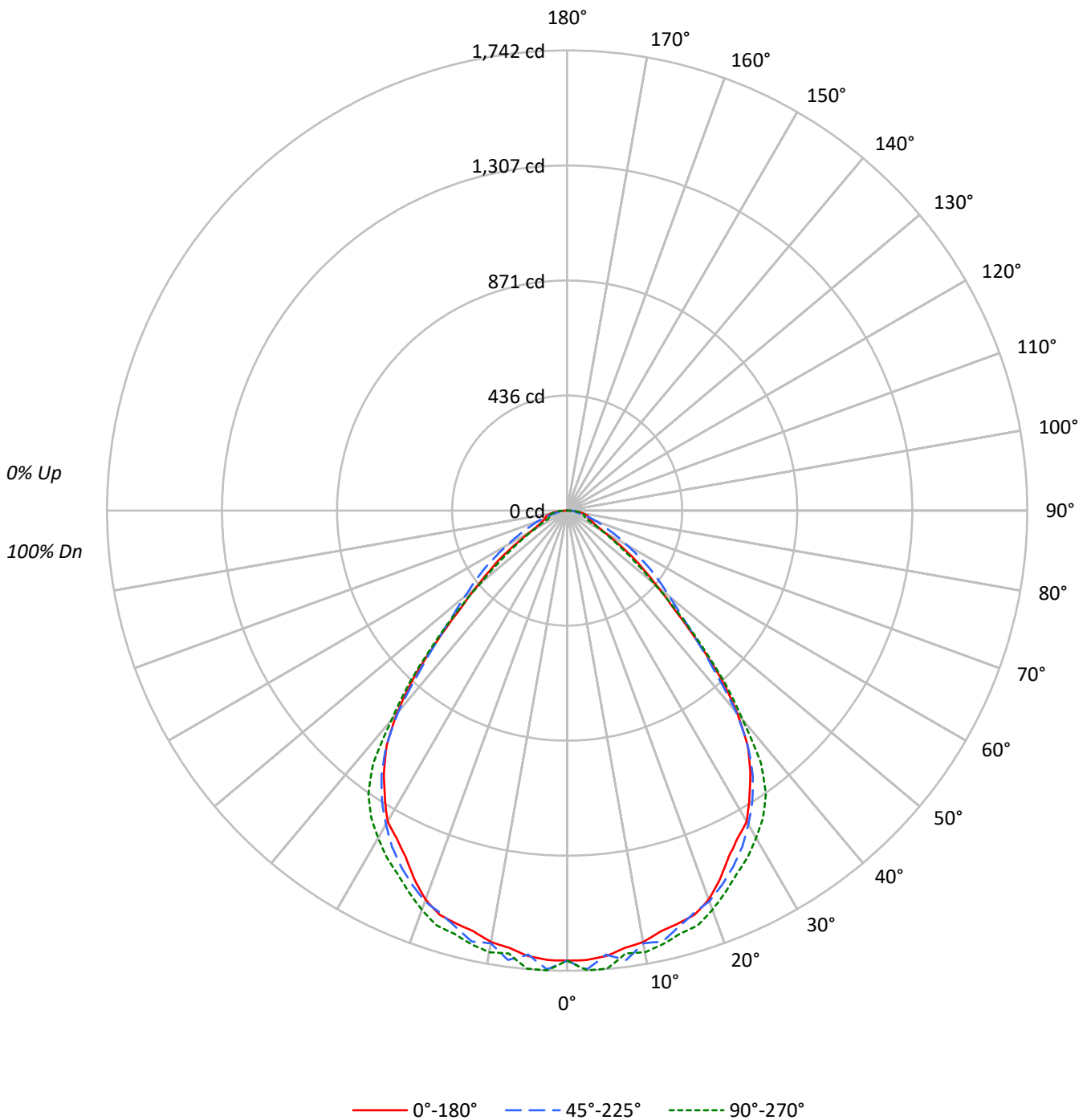
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4585	4585	4585
5°	4573	4558	4702
10°	4531	4544	4639
15°	4510	4545	4618
20°	4486	4508	4605
25°	4295	4416	4507
30°	4224	4263	4444
35°	3972	4023	4309
40°	3520	3496	3634
45°	2629	2635	2708
50°	1851	2105	1793
55°	1366	1778	1225
60°	854	1405	800
65°	697	1113	559
70°	691	927	552
75°	857	681	712
80°	955	538	871
85°	951	997	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	5.0
10°-20°	462.0	14.1
20°-30°	684.2	20.9
30°-40°	766.4	23.4
40°-50°	563.1	17.2
50°-60°	314.8	9.6
60°-70°	175.4	5.4
70°-80°	103.1	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°	1308.3	40.0
0°-40°	2074.7	63.5
0°-60°	2952.6	90.3
0°-90°	3269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1693	1724	1688	1722	1741	160
15°	1619	1629	1631	1656	1658	457
25°	1446	1458	1487	1508	1518	670
35°	1209	1210	1225	1280	1312	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	66	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°	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1702.9	1718.3	1738.4	1740.7	1742.2
5°	1692.9	1724.5	1687.5	1722.2	1740.7
7.5°	1669.8	1689.1	1716.0	1681.4	1691.4
10°	1658.3	1662.9	1662.9	1706.0	1697.6
12.5°	1632.1	1662.9	1670.6	1662.1	1680.6
15°	1619.0	1629.0	1631.3	1656.0	1657.5
17.5°	1604.4	1602.0	1596.7	1614.4	1645.9
20°	1566.6	1558.1	1574.3	1595.9	1608.2
22.5°	1511.2	1513.5	1532.7	1550.4	1564.3
25°	1446.5	1458.0	1487.3	1508.1	1518.1
27.5°	1397.9	1414.9	1434.9	1459.6	1479.6
30°	1359.4	1357.9	1371.8	1407.2	1430.3
32.5°	1284.7	1290.1	1304.7	1347.1	1379.5
35°	1209.2	1210.0	1224.6	1280.1	1311.7
37.5°	1122.2	1116.0	1124.5	1184.6	1205.4
40°	1002.0	1003.6	995.1	1037.5	1034.4
42.5°	861.9	874.2	830.3	885.7	881.9
45°	690.9	747.1	692.4	741.7	711.7
47.5°	545.3	628.5	583.1	619.3	563.0
50°	442.1	527.6	502.9	519.1	428.2
52.5°	362.8	432.1	439.8	443.6	334.3
55°	291.1	354.3	378.9	378.2	261.1
57.5°	214.9	288.1	316.6	328.1	197.9
60°	158.7	239.5	261.1	286.5	148.7
62.5°	127.9	210.3	215.7	251.1	113.2
65°	109.4	194.1	174.8	224.1	87.8
67.5°	97.0	181.0	142.5	200.3	74.7
70°	87.8	161.0	117.8	179.5	70.1
72.5°	85.5	137.1	90.9	160.2	69.3
75°	82.4	116.3	65.5	131.7	68.5
77.5°	70.9	99.4	47.0	101.7	63.9
80°	61.6	79.3	34.7	76.3	56.2
82.5°	47.8	60.1	30.8	57.8	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)