

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: P292694

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292694
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3381.0 lumens
Efficiency: N/A
Efficacy: 115.0 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

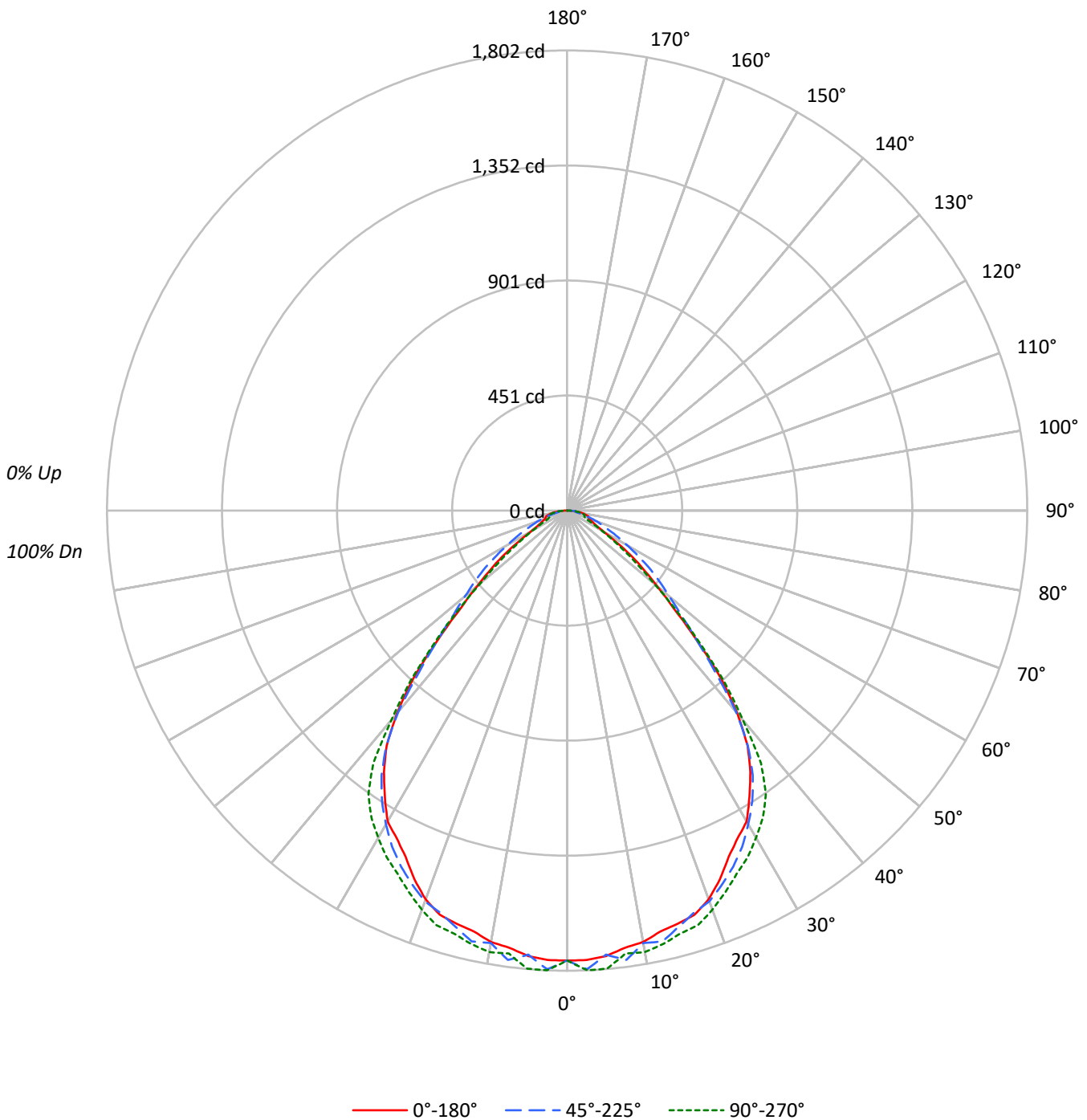
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4742	4742	4742
5°	4730	4715	4863
10°	4686	4700	4797
15°	4665	4700	4776
20°	4640	4663	4763
25°	4442	4567	4662
30°	4369	4408	4597
35°	4109	4161	4457
40°	3641	3615	3758
45°	2719	2725	2801
50°	1914	2178	1854
55°	1413	1839	1267
60°	883	1453	827
65°	720	1151	578
70°	714	959	570
75°	886	704	737
80°	987	555	902
85°	985	1034	1010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	5.0
10°-20°	477.8	14.1
20°-30°	707.6	20.9
30°-40°	792.6	23.4
40°-50°	582.4	17.2
50°-60°	325.5	9.6
60°-70°	181.4	5.4
70°-80°	106.6	3.2
80°-90°	39.2	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°	1353.2	40.0
0°-40°	2145.8	63.5
0°-60°	3053.8	90.3
0°-90°	3381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1751	1784	1745	1781	1800	166
15°	1674	1685	1687	1713	1714	473
25°	1496	1508	1538	1560	1570	693
35°	1251	1252	1267	1324	1357	775
45°	715	773	716	767	736	558
55°	301	366	392	391	270	269
65°	113	201	181	232	91	117
75°	85	120	68	136	71	86
85°	32	47	34	43	33	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1762.1	1762.1	1762.1	1762.1	1762.1
2.5°	1761.3	1777.2	1797.9	1800.3	1801.9
5°	1750.9	1783.6	1745.4	1781.2	1800.3
7.5°	1727.0	1746.9	1774.8	1739.0	1749.3
10°	1715.1	1719.9	1719.9	1764.5	1755.7
12.5°	1688.0	1719.9	1727.8	1719.1	1738.2
15°	1674.5	1684.8	1687.2	1712.7	1714.3
17.5°	1659.3	1656.9	1651.4	1669.7	1702.3
20°	1620.3	1611.5	1628.3	1650.6	1663.3
22.5°	1562.9	1565.3	1585.2	1603.6	1617.9
25°	1496.0	1508.0	1538.2	1559.7	1570.1
27.5°	1445.8	1463.4	1484.1	1509.6	1530.3
30°	1406.0	1404.4	1418.7	1455.4	1479.3
32.5°	1328.7	1334.3	1349.4	1393.3	1426.7
35°	1250.7	1251.5	1266.6	1324.0	1356.6
37.5°	1160.6	1154.3	1163.0	1225.2	1246.7
40°	1036.4	1038.0	1029.2	1073.0	1069.8
42.5°	891.4	904.1	858.7	916.1	912.1
45°	714.6	772.7	716.1	767.1	736.1
47.5°	564.0	650.0	603.0	640.5	582.3
50°	457.2	545.7	520.2	536.9	442.9
52.5°	375.2	446.9	454.9	458.8	345.7
55°	301.1	366.4	391.9	391.1	270.0
57.5°	222.3	297.9	327.4	339.4	204.7
60°	164.1	247.7	270.0	296.3	153.7
62.5°	132.2	217.5	223.0	259.7	117.1
65°	113.1	200.7	180.8	231.8	90.8
67.5°	100.4	187.2	147.4	207.1	77.3
70°	90.8	166.5	121.9	185.6	72.5
72.5°	88.4	141.8	94.0	165.7	71.7
75°	85.2	120.3	67.7	136.2	70.9
77.5°	73.3	102.8	48.6	105.2	66.1
80°	63.7	82.0	35.8	78.9	58.2
82.5°	49.4	62.1	31.9	59.7	47.0
85°	31.9	47.0	33.5	43.0	32.7
87.5°	15.1	26.3	23.9	23.1	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)