

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: P292578

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292578
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-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: 3003.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

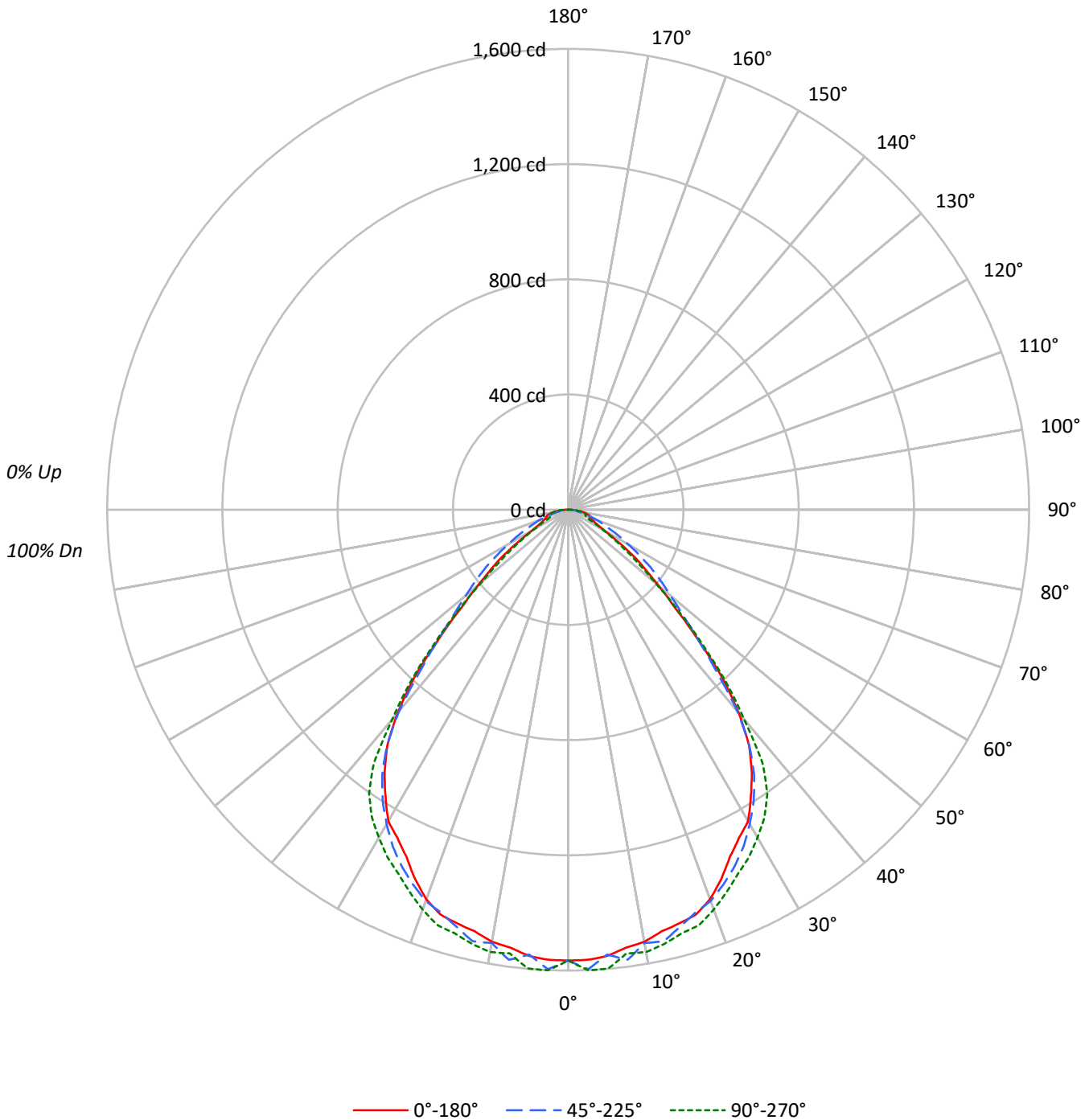
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4212	4212	4212
5°	4201	4187	4319
10°	4162	4174	4261
15°	4143	4175	4242
20°	4121	4141	4231
25°	3945	4057	4141
30°	3880	3915	4083
35°	3649	3696	3958
40°	3234	3211	3338
45°	2415	2421	2488
50°	1700	1934	1647
55°	1255	1633	1126
60°	785	1291	735
65°	640	1023	514
70°	635	852	507
75°	787	625	655
80°	877	493	801
85°	874	917	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	5.0
10°-20°	424.4	14.1
20°-30°	628.5	20.9
30°-40°	704.0	23.4
40°-50°	517.3	17.2
50°-60°	289.2	9.6
60°-70°	161.2	5.4
70°-80°	94.7	3.2
80°-90°	34.8	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°	1201.9	40.0
0°-40°	1905.9	63.5
0°-60°	2712.4	90.3
0°-90°	3003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1555	1584	1550	1582	1599	147
15°	1487	1496	1499	1521	1523	420
25°	1329	1339	1366	1385	1395	616
35°	1111	1112	1125	1176	1205	688
45°	635	686	636	681	654	496
55°	268	326	348	347	240	239
65°	100	178	161	206	81	104
75°	76	107	60	121	63	76
85°	28	42	30	38	29	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.1	1565.1	1565.1	1565.1	1565.1
2.5°	1564.4	1578.5	1596.9	1599.0	1600.5
5°	1555.2	1584.2	1550.2	1582.1	1599.0
7.5°	1533.9	1551.6	1576.4	1544.6	1553.8
10°	1523.3	1527.6	1527.6	1567.2	1559.4
12.5°	1499.3	1527.6	1534.7	1526.9	1543.9
15°	1487.3	1496.4	1498.6	1521.2	1522.6
17.5°	1473.8	1471.7	1466.7	1483.0	1512.0
20°	1439.1	1431.4	1446.2	1466.0	1477.3
22.5°	1388.2	1390.3	1408.0	1424.3	1437.0
25°	1328.8	1339.4	1366.3	1385.4	1394.6
27.5°	1284.2	1299.8	1318.1	1340.8	1359.2
30°	1248.8	1247.4	1260.1	1292.7	1313.9
32.5°	1180.2	1185.1	1198.6	1237.5	1267.2
35°	1110.8	1111.5	1125.0	1175.9	1204.9
37.5°	1030.9	1025.2	1033.0	1088.2	1107.3
40°	920.5	921.9	914.1	953.1	950.2
42.5°	791.7	803.1	762.7	813.7	810.1
45°	634.7	686.3	636.1	681.4	653.8
47.5°	500.9	577.4	535.6	568.9	517.2
50°	406.1	484.7	462.0	476.9	393.4
52.5°	333.3	396.9	404.0	407.5	307.1
55°	267.5	325.5	348.1	347.4	239.9
57.5°	197.4	264.6	290.8	301.4	181.8
60°	145.8	220.0	239.9	263.2	136.6
62.5°	117.5	193.2	198.1	230.7	104.0
65°	100.5	178.3	160.6	205.9	80.7
67.5°	89.2	166.3	130.9	184.0	68.6
70°	80.7	147.9	108.3	164.9	64.4
72.5°	78.5	125.9	83.5	147.2	63.7
75°	75.7	106.8	60.1	121.0	63.0
77.5°	65.1	91.3	43.2	93.4	58.7
80°	56.6	72.9	31.8	70.0	51.7
82.5°	43.9	55.2	28.3	53.1	41.7
85°	28.3	41.7	29.7	38.2	29.0
87.5°	13.4	23.3	21.2	20.5	14.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)