

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: P292576

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292576
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-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2988.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

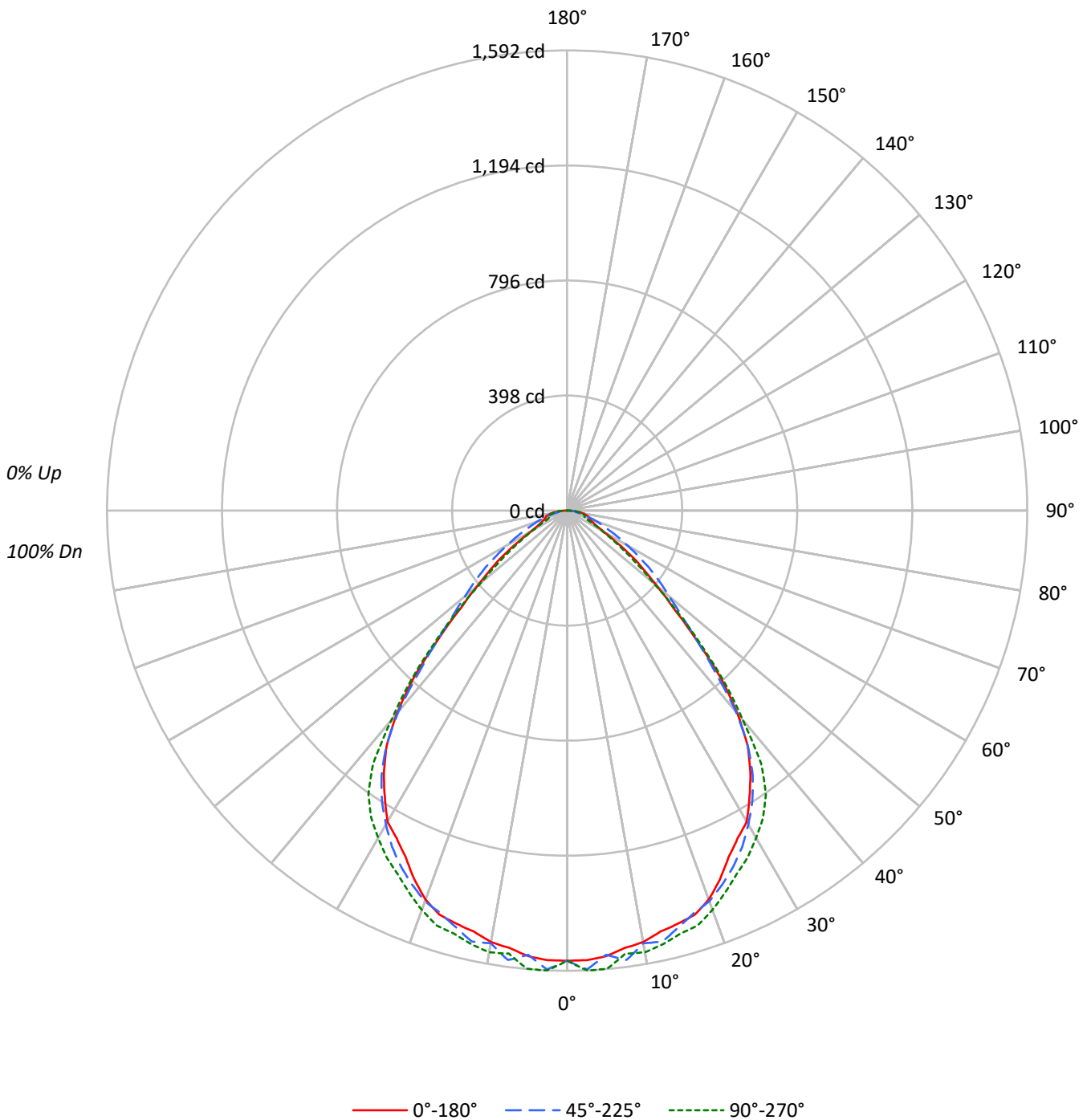
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4191	4191	4191
5°	4180	4167	4298
10°	4142	4153	4240
15°	4123	4154	4221
20°	4101	4121	4210
25°	3926	4036	4120
30°	3861	3896	4062
35°	3631	3677	3938
40°	3217	3195	3321
45°	2403	2409	2476
50°	1692	1924	1639
55°	1248	1625	1120
60°	780	1285	731
65°	637	1018	511
70°	632	847	504
75°	783	622	652
80°	872	491	797
85°	871	914	892



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	5.0
10°-20°	422.2	14.1
20°-30°	625.4	20.9
30°-40°	700.5	23.4
40°-50°	514.7	17.2
50°-60°	287.7	9.6
60°-70°	160.3	5.4
70°-80°	94.2	3.2
80°-90°	34.6	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°	1195.9	40.0
0°-40°	1896.4	63.5
0°-60°	2698.8	90.3
0°-90°	2988.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2988.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1547	1576	1542	1574	1591	146
15°	1480	1489	1491	1514	1515	418
25°	1322	1333	1359	1378	1388	613
35°	1105	1106	1119	1170	1199	685
45°	632	683	633	678	650	493
55°	266	324	346	346	239	237
65°	100	177	160	205	80	103
75°	75	106	60	120	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°	1557.3	1557.3	1557.3	1557.3	1557.3
2.5°	1556.6	1570.6	1588.9	1591.1	1592.5
5°	1547.4	1576.3	1542.5	1574.2	1591.1
7.5°	1526.3	1543.9	1568.5	1536.8	1546.0
10°	1515.7	1520.0	1520.0	1559.4	1551.6
12.5°	1491.8	1520.0	1527.0	1519.2	1536.1
15°	1479.8	1489.0	1491.1	1513.6	1515.0
17.5°	1466.4	1464.3	1459.4	1475.6	1504.5
20°	1431.9	1424.2	1439.0	1458.7	1470.0
22.5°	1381.3	1383.4	1401.0	1417.2	1429.8
25°	1322.1	1332.7	1359.4	1378.4	1387.6
27.5°	1277.8	1293.3	1311.6	1334.1	1352.4
30°	1242.6	1241.2	1253.8	1286.2	1307.3
32.5°	1174.3	1179.2	1192.6	1231.3	1260.9
35°	1105.3	1106.0	1119.4	1170.1	1198.9
37.5°	1025.7	1020.1	1027.8	1082.8	1101.8
40°	915.9	917.3	909.6	948.3	945.5
42.5°	787.8	799.0	758.9	809.6	806.1
45°	631.5	682.9	632.9	678.0	650.5
47.5°	498.4	574.5	532.9	566.0	514.6
50°	404.1	482.2	459.7	474.5	391.4
52.5°	331.6	394.9	402.0	405.5	305.5
55°	266.1	323.8	346.4	345.7	238.7
57.5°	196.4	263.3	289.3	299.9	180.9
60°	145.0	218.9	238.7	261.9	135.9
62.5°	116.9	192.2	197.1	229.5	103.5
65°	100.0	177.4	159.8	204.9	80.3
67.5°	88.7	165.4	130.2	183.0	68.3
70°	80.3	147.1	107.7	164.0	64.1
72.5°	78.1	125.3	83.1	146.4	63.4
75°	75.3	106.3	59.8	120.4	62.7
77.5°	64.8	90.8	42.9	92.9	58.4
80°	56.3	72.5	31.7	69.7	51.4
82.5°	43.6	54.9	28.2	52.8	41.5
85°	28.2	41.5	29.6	38.0	28.9
87.5°	13.4	23.2	21.1	20.4	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)