

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: P292674

Luminaire Tested: **22GR-LD5-28-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292674
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-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2697.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

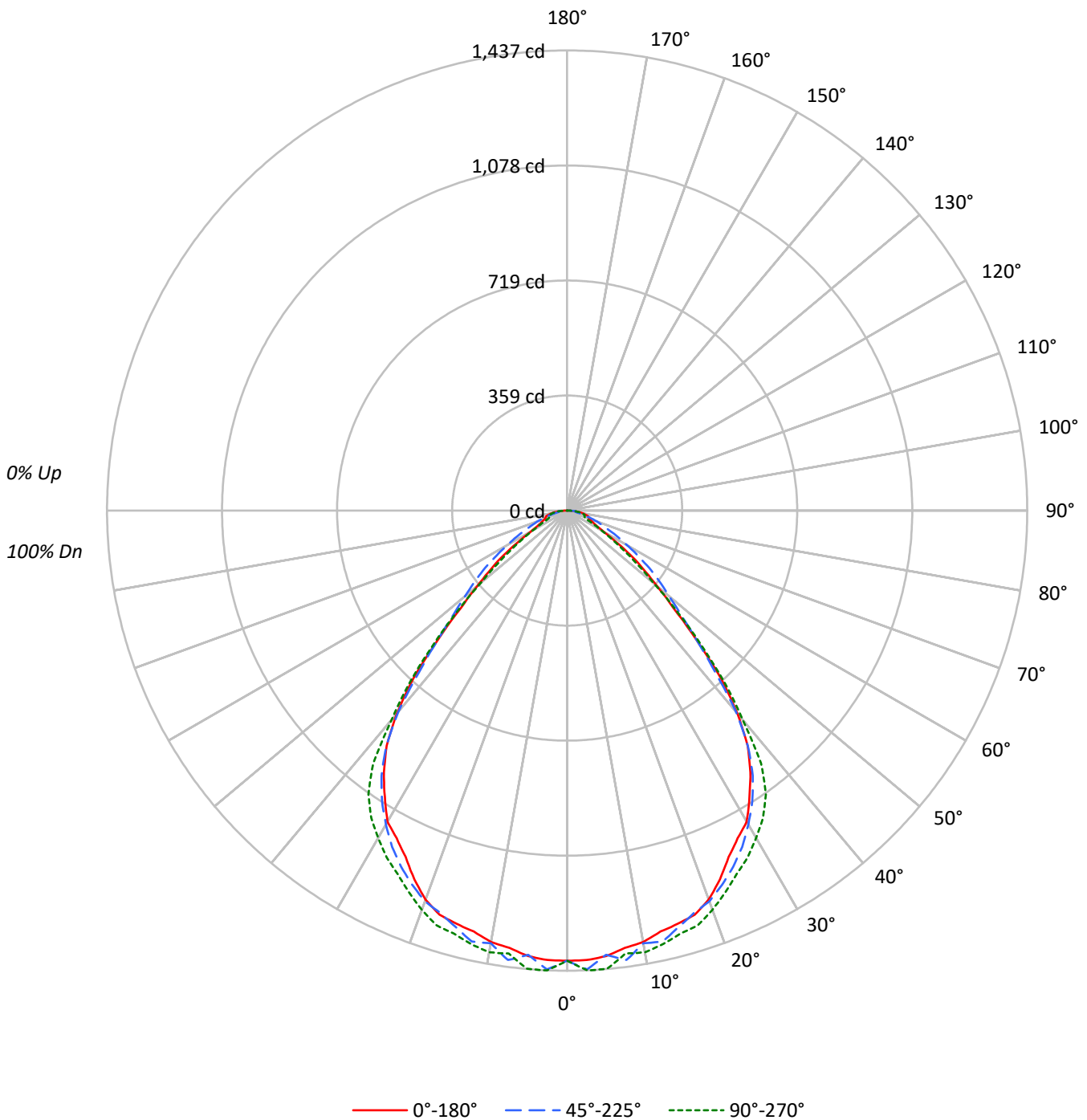
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3782	3782	3782
5°	3773	3761	3879
10°	3738	3749	3827
15°	3721	3750	3810
20°	3701	3719	3800
25°	3543	3643	3719
30°	3485	3517	3667
35°	3277	3319	3555
40°	2904	2884	2998
45°	2169	2174	2234
50°	1527	1737	1479
55°	1127	1467	1011
60°	704	1159	660
65°	574	918	461
70°	570	765	455
75°	707	561	588
80°	787	443	719
85°	784	824	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	5.0
10°-20°	381.1	14.1
20°-30°	564.5	20.9
30°-40°	632.3	23.4
40°-50°	464.6	17.2
50°-60°	259.7	9.6
60°-70°	144.7	5.4
70°-80°	85.1	3.2
80°-90°	31.3	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°	1079.4	40.0
0°-40°	1711.7	63.5
0°-60°	2436.0	90.3
0°-90°	2697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2697.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1406	1406	1406	1406	1406	
5°	1397	1423	1392	1421	1436	132
15°	1336	1344	1346	1366	1368	377
25°	1193	1203	1227	1244	1252	553
35°	998	998	1010	1056	1082	618
45°	570	616	571	612	587	445
55°	240	292	313	312	215	214
65°	90	160	144	185	72	93
75°	68	96	54	109	57	68
85°	25	38	27	34	26	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.6	1405.6	1405.6	1405.6	1405.6
2.5°	1405.0	1417.7	1434.2	1436.1	1437.4
5°	1396.7	1422.8	1392.3	1420.9	1436.1
7.5°	1377.6	1393.5	1415.8	1387.2	1395.4
10°	1368.1	1371.9	1371.9	1407.5	1400.5
12.5°	1346.5	1371.9	1378.3	1371.3	1386.5
15°	1335.7	1344.0	1345.9	1366.2	1367.5
17.5°	1323.6	1321.7	1317.3	1331.9	1357.9
20°	1292.5	1285.5	1298.8	1316.6	1326.8
22.5°	1246.7	1248.6	1264.5	1279.1	1290.6
25°	1193.4	1202.9	1227.0	1244.2	1252.5
27.5°	1153.3	1167.3	1183.8	1204.2	1220.7
30°	1121.6	1120.3	1131.7	1161.0	1180.0
32.5°	1059.9	1064.4	1076.4	1111.4	1138.1
35°	997.6	998.3	1010.4	1056.1	1082.2
37.5°	925.8	920.8	927.7	977.3	994.5
40°	826.7	828.0	821.0	855.9	853.4
42.5°	711.1	721.2	685.0	730.8	727.6
45°	570.0	616.4	571.3	611.9	587.1
47.5°	449.9	518.5	481.0	510.9	464.5
50°	364.7	435.3	414.9	428.3	353.3
52.5°	299.3	356.5	362.8	366.0	275.8
55°	240.2	292.3	312.6	312.0	215.4
57.5°	177.3	237.7	261.2	270.7	163.3
60°	130.9	197.6	215.4	236.4	122.6
62.5°	105.5	173.5	177.9	207.2	93.4
65°	90.2	160.1	144.2	184.9	72.4
67.5°	80.1	149.3	117.6	165.2	61.6
70°	72.4	132.8	97.2	148.1	57.8
72.5°	70.5	113.1	75.0	132.2	57.2
75°	68.0	96.0	54.0	108.7	56.6
77.5°	58.5	82.0	38.8	83.9	52.7
80°	50.8	65.5	28.6	62.9	46.4
82.5°	39.4	49.6	25.4	47.7	37.5
85°	25.4	37.5	26.7	34.3	26.1
87.5°	12.1	21.0	19.1	18.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)