

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: P292581

Luminaire Tested: **22GR-LD5-32-A19/156-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292581
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-LD5-32-A19/156-UNV-L82765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3100.0 lumens
Efficiency: N/A
Efficacy: 125.8 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

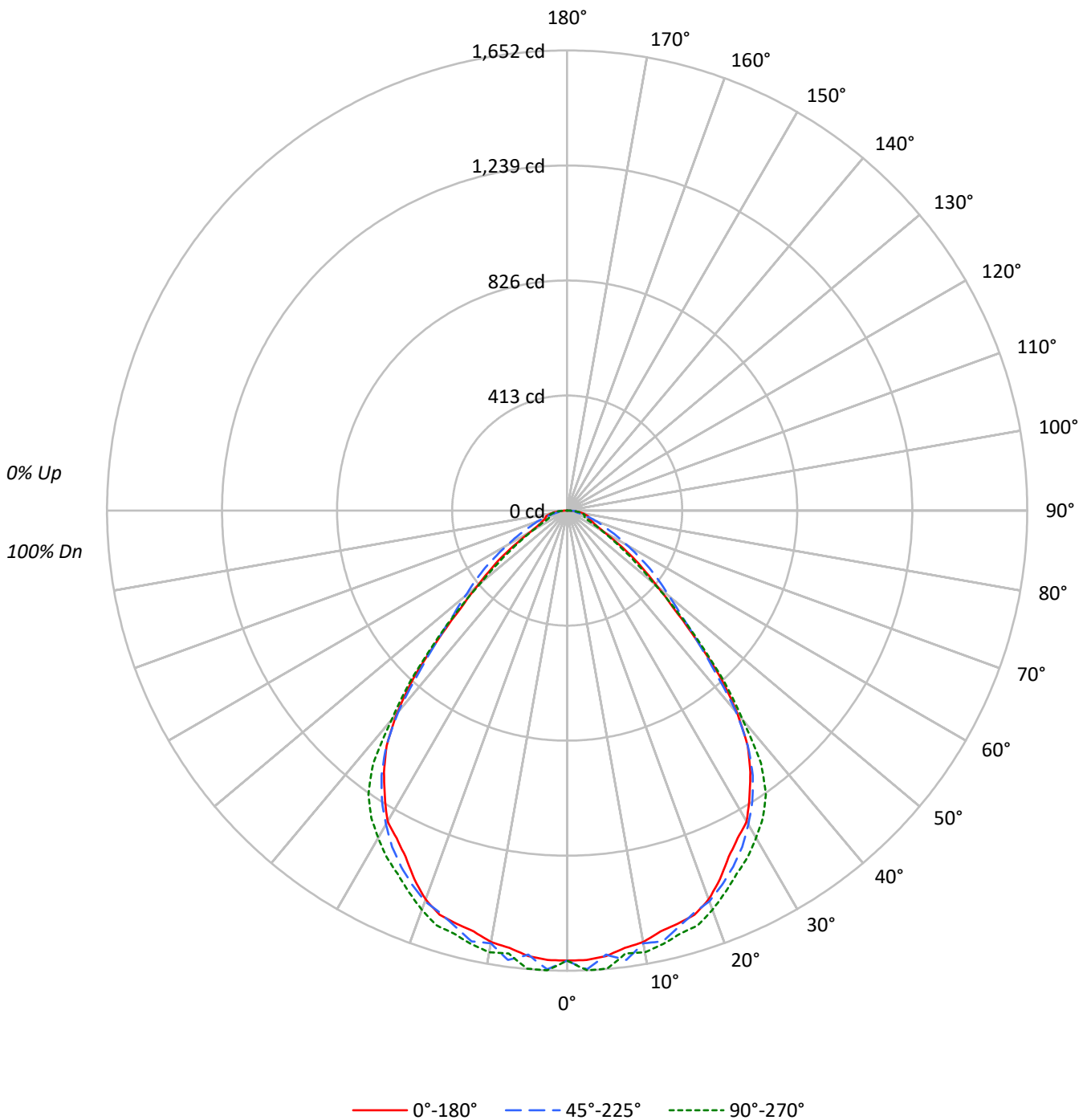
Input Watts (W): 24.645
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4348	4348	4348
5°	4337	4323	4459
10°	4297	4309	4399
15°	4277	4310	4379
20°	4254	4275	4367
25°	4073	4188	4274
30°	4006	4042	4214
35°	3767	3815	4086
40°	3338	3315	3446
45°	2493	2499	2568
50°	1755	1997	1700
55°	1295	1686	1162
60°	810	1333	759
65°	660	1056	530
70°	655	880	523
75°	813	646	676
80°	905	510	826
85°	902	948	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	5.0
10°-20°	438.1	14.1
20°-30°	648.8	20.9
30°-40°	726.8	23.4
40°-50°	534.0	17.2
50°-60°	298.5	9.6
60°-70°	166.4	5.4
70°-80°	97.7	3.2
80°-90°	35.9	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°	1240.7	40.0
0°-40°	1967.4	63.5
0°-60°	2800.0	90.3
0°-90°	3100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3100.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1605	1635	1600	1633	1651	152
15°	1535	1545	1547	1570	1572	434
25°	1372	1383	1410	1430	1440	636
35°	1147	1148	1161	1214	1244	710
45°	655	708	657	703	675	512
55°	276	336	359	359	248	246
65°	104	184	166	212	83	107
75°	78	110	62	125	65	79
85°	29	43	31	39	30	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.6	1615.6	1615.6	1615.6	1615.6
2.5°	1614.9	1629.5	1648.5	1650.7	1652.2
5°	1605.4	1635.4	1600.3	1633.2	1650.7
7.5°	1583.5	1601.8	1627.3	1594.5	1603.9
10°	1572.5	1576.9	1576.9	1617.8	1609.8
12.5°	1547.7	1576.9	1584.2	1576.2	1593.7
15°	1535.3	1544.8	1547.0	1570.3	1571.8
17.5°	1521.4	1519.2	1514.1	1530.9	1560.9
20°	1485.6	1477.6	1492.9	1513.4	1525.1
22.5°	1433.0	1435.2	1453.5	1470.3	1483.4
25°	1371.7	1382.6	1410.4	1430.1	1439.6
27.5°	1325.7	1341.7	1360.7	1384.1	1403.1
30°	1289.1	1287.7	1300.8	1334.4	1356.3
32.5°	1218.3	1223.4	1237.3	1277.5	1308.1
35°	1146.7	1147.5	1161.3	1213.9	1243.9
37.5°	1064.2	1058.3	1066.4	1123.3	1143.1
40°	950.2	951.7	943.7	983.8	980.9
42.5°	817.3	829.0	787.4	840.0	836.3
45°	655.2	708.5	656.6	703.4	674.9
47.5°	517.1	596.0	552.9	587.2	533.9
50°	419.2	500.3	476.9	492.3	406.1
52.5°	344.0	409.8	417.1	420.7	317.0
55°	276.1	336.0	359.4	358.6	247.6
57.5°	203.8	273.2	300.2	311.1	187.7
60°	150.5	227.2	247.6	271.7	141.0
62.5°	121.2	199.4	204.5	238.1	107.4
65°	103.7	184.1	165.8	212.5	83.3
67.5°	92.0	171.6	135.1	189.9	70.8
70°	83.3	152.7	111.8	170.2	66.5
72.5°	81.1	130.0	86.2	151.9	65.7
75°	78.2	110.3	62.1	124.9	65.0
77.5°	67.2	94.2	44.6	96.4	60.6
80°	58.4	75.2	32.9	72.3	53.3
82.5°	45.3	57.0	29.2	54.8	43.1
85°	29.2	43.1	30.7	39.4	29.9
87.5°	13.9	24.1	21.9	21.2	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)