

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: P292194

Luminaire Tested: **22GR-LD5-32-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-A-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3350.0 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

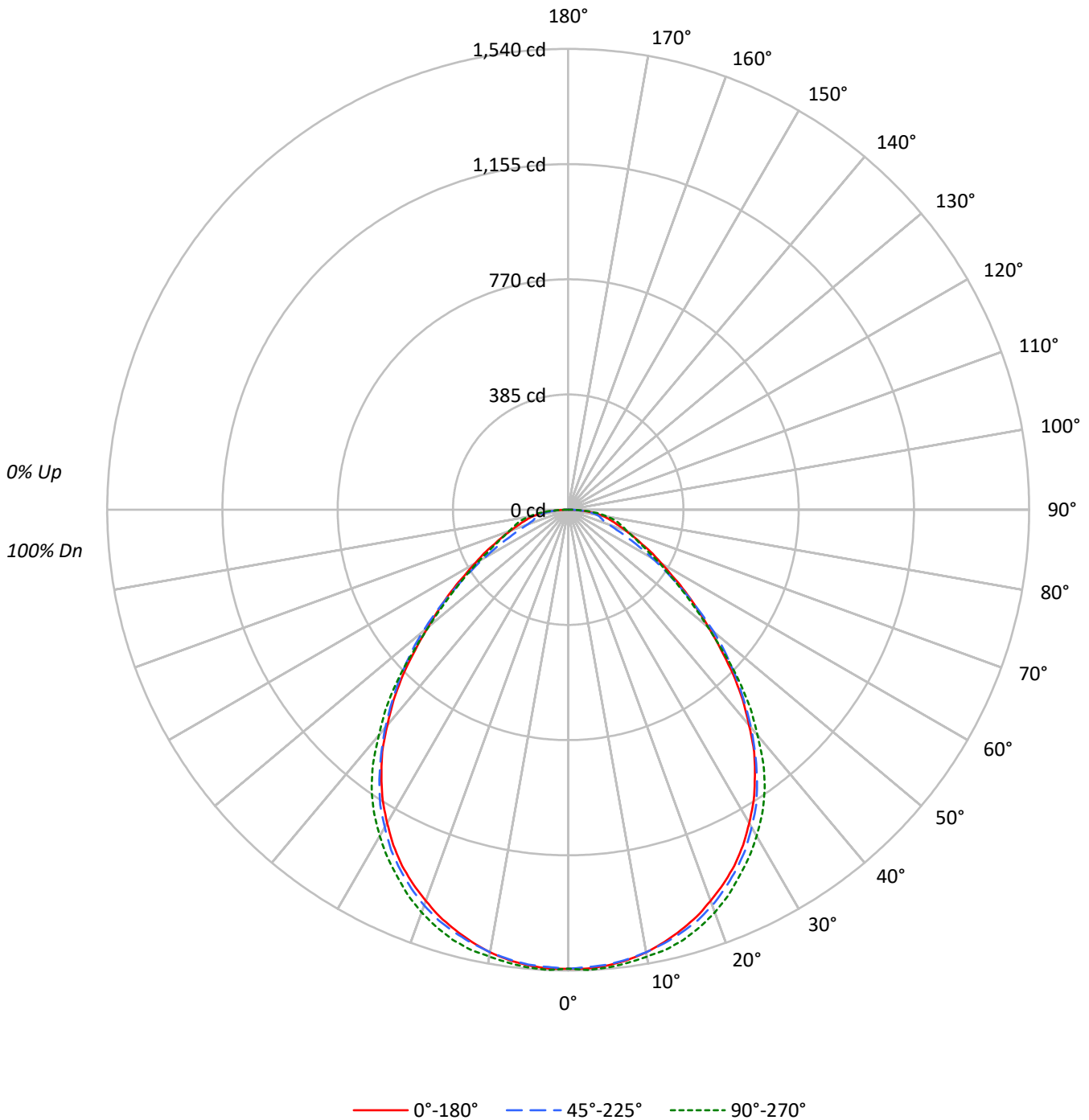
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4128	4128	4128
5°	4129	4123	4148
10°	4105	4103	4143
15°	4053	4074	4146
20°	3983	4029	4101
25°	3898	3942	4014
30°	3757	3808	3912
35°	3573	3614	3759
40°	3303	3338	3456
45°	2967	3020	3068
50°	2565	2657	2539
55°	2238	2180	2151
60°	1939	1745	1863
65°	1733	1370	1673
70°	1607	1135	1650
75°	1605	1200	1832
80°	1776	1509	2066
85°	1853	1636	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	4.3
10°-20°	413.5	12.3
20°-30°	611.5	18.3
30°-40°	690.1	20.6
40°-50°	608.4	18.2
50°-60°	417.3	12.5
60°-70°	246.3	7.4
70°-80°	153.7	4.6
80°-90°	64.1	1.9
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°	1170.2	34.9
0°-40°	1860.3	55.5
0°-60°	2886.0	86.1
0°-90°	3350.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3350.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1529	1526	1526	1532	1536	145
15°	1455	1456	1462	1480	1488	410
25°	1313	1318	1328	1345	1352	603
35°	1088	1097	1100	1126	1144	678
45°	780	784	794	798	806	599
55°	477	465	465	449	458	428
65°	272	239	215	249	263	274
75°	154	139	115	161	176	166
85°	60	56	53	69	76	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1534.2	1534.2	1534.2	1534.2	1534.2
2.5°	1535.0	1531.1	1529.5	1535.7	1539.6
5°	1528.7	1525.6	1526.4	1531.8	1535.7
7.5°	1517.8	1515.5	1515.5	1523.3	1527.2
10°	1502.2	1501.4	1501.4	1510.8	1516.2
12.5°	1480.4	1481.2	1484.3	1496.8	1506.1
15°	1454.7	1456.2	1462.5	1480.4	1488.2
17.5°	1426.6	1426.6	1439.1	1453.1	1462.5
20°	1390.7	1393.1	1407.1	1422.7	1432.1
22.5°	1354.1	1358.0	1369.7	1387.6	1396.2
25°	1312.8	1317.5	1327.6	1344.7	1351.8
27.5°	1264.5	1270.7	1281.6	1294.1	1308.9
30°	1209.1	1218.5	1225.5	1242.6	1259.0
32.5°	1153.0	1161.5	1169.3	1187.3	1206.0
35°	1087.5	1096.8	1100.0	1126.5	1144.4
37.5°	1020.4	1024.3	1025.9	1052.4	1071.9
40°	940.2	947.9	950.3	971.3	983.8
42.5°	863.0	866.1	870.8	886.4	901.2
45°	779.6	783.5	793.6	798.3	806.1
47.5°	692.3	703.9	715.6	700.8	701.6
50°	612.7	622.1	634.6	606.5	606.5
52.5°	541.8	546.5	547.3	523.9	528.5
55°	477.1	465.4	464.6	449.0	458.4
57.5°	412.4	396.8	391.3	386.7	397.6
60°	360.2	332.1	324.3	331.3	346.1
62.5°	317.3	281.4	266.6	284.5	297.8
65°	272.1	239.3	215.2	248.7	262.7
67.5°	237.0	205.8	174.6	222.2	232.3
70°	204.2	180.1	144.2	201.9	209.7
72.5°	177.7	159.0	124.7	182.4	191.8
75°	154.4	138.8	115.4	161.4	176.2
77.5°	135.6	118.5	107.6	139.5	157.5
80°	114.6	97.4	97.4	116.9	133.3
82.5°	90.4	76.4	78.7	95.1	106.8
85°	60.0	56.1	53.0	69.4	75.6
87.5°	30.4	31.2	28.1	35.9	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)