

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: P292192

Luminaire Tested: **22GR-LD5-32-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292192
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3309.0 lumens
Efficiency: N/A
Efficacy: 131.8 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

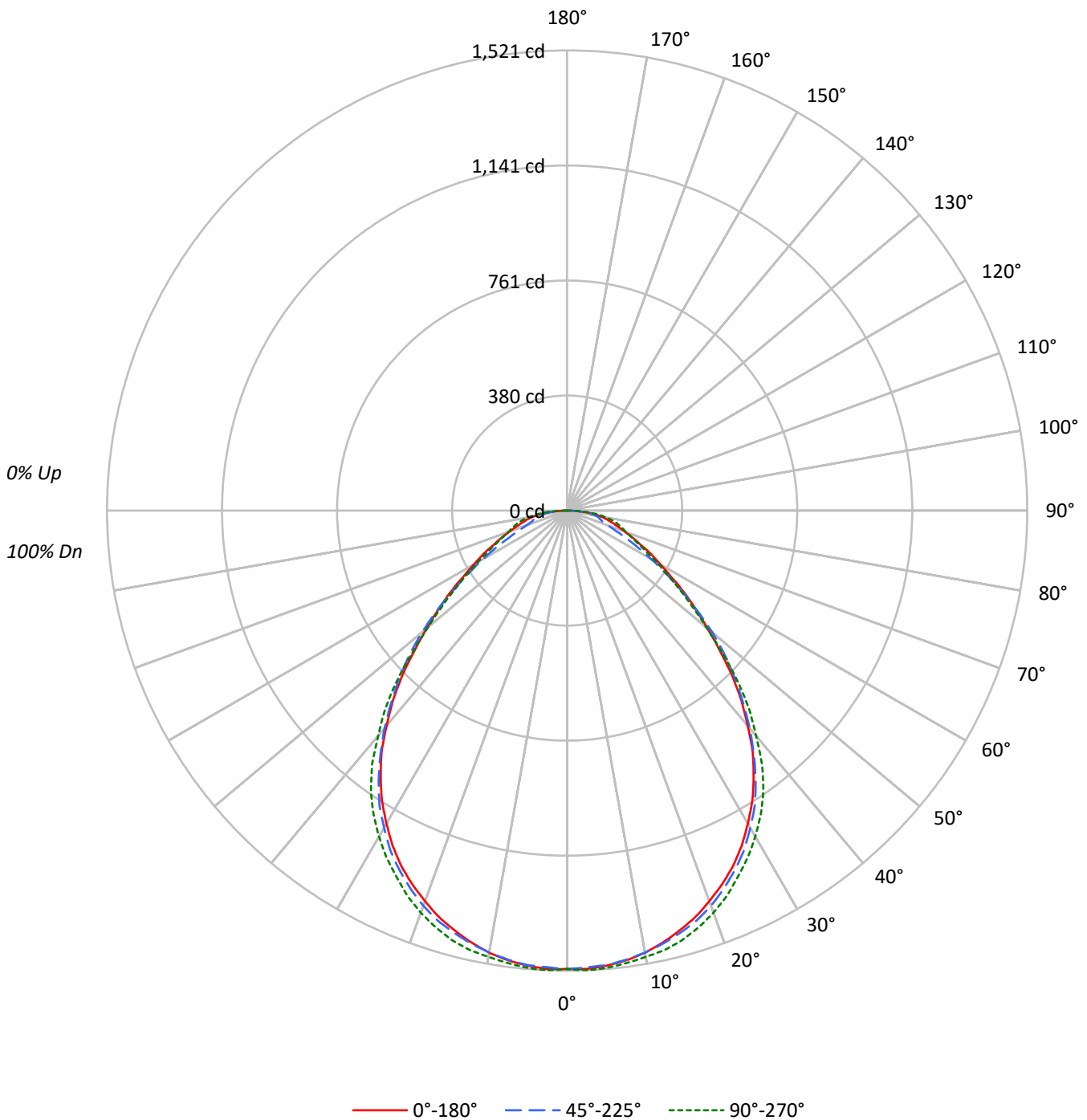
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4078	4078	4078
5°	4079	4073	4098
10°	4054	4053	4092
15°	4003	4025	4095
20°	3934	3980	4051
25°	3850	3893	3964
30°	3711	3761	3864
35°	3529	3569	3713
40°	3262	3297	3414
45°	2930	2983	3030
50°	2534	2624	2508
55°	2211	2153	2124
60°	1914	1724	1840
65°	1711	1353	1652
70°	1587	1121	1629
75°	1586	1185	1809
80°	1754	1492	2041
85°	1831	1618	2306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	4.3
10°-20°	408.4	12.3
20°-30°	604.1	18.3
30°-40°	681.7	20.6
40°-50°	600.9	18.2
50°-60°	412.2	12.5
60°-70°	243.2	7.4
70°-80°	151.8	4.6
80°-90°	63.3	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°	1155.9	34.9
0°-40°	1837.5	55.5
0°-60°	2850.7	86.1
0°-90°	3309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1510	1507	1508	1513	1517	143
15°	1437	1438	1445	1462	1470	405
25°	1297	1301	1311	1328	1335	596
35°	1074	1083	1086	1113	1130	669
45°	770	774	784	788	796	592
55°	471	460	459	444	453	423
65°	269	236	212	246	260	271
75°	152	137	114	159	174	164
85°	59	55	52	68	75	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1516.2	1512.3	1510.8	1516.9	1520.8
5°	1510.0	1506.9	1507.7	1513.1	1516.9
7.5°	1499.2	1496.9	1496.9	1504.6	1508.5
10°	1483.8	1483.1	1483.1	1492.3	1497.7
12.5°	1462.3	1463.0	1466.1	1478.4	1487.7
15°	1436.9	1438.4	1444.6	1462.3	1470.0
17.5°	1409.1	1409.1	1421.5	1435.3	1444.6
20°	1373.7	1376.0	1389.9	1405.3	1414.5
22.5°	1337.5	1341.4	1352.9	1370.6	1379.1
25°	1296.7	1301.3	1311.3	1328.3	1335.2
27.5°	1249.0	1255.1	1265.9	1278.2	1292.9
30°	1194.3	1203.5	1210.5	1227.4	1243.6
32.5°	1138.9	1147.3	1155.0	1172.7	1191.2
35°	1074.2	1083.4	1086.5	1112.7	1130.4
37.5°	1008.0	1011.8	1013.3	1039.5	1058.8
40°	928.6	936.3	938.7	959.4	971.8
42.5°	852.4	855.5	860.1	875.5	890.1
45°	770.0	773.9	783.9	788.5	796.2
47.5°	683.8	695.3	706.9	692.2	693.0
50°	605.2	614.5	626.8	599.1	599.1
52.5°	535.2	539.8	540.6	517.5	522.1
55°	471.3	459.7	458.9	443.5	452.8
57.5°	407.3	391.9	386.6	381.9	392.7
60°	355.7	328.0	320.3	327.3	341.9
62.5°	313.4	278.0	263.3	281.1	294.1
65°	268.7	236.4	212.5	245.6	259.5
67.5°	234.1	203.3	172.5	219.5	229.5
70°	201.7	177.9	142.5	199.4	207.1
72.5°	175.6	157.1	123.2	180.2	189.4
75°	152.5	137.1	114.0	159.4	174.0
77.5°	134.0	117.0	106.3	137.8	155.5
80°	113.2	96.3	96.3	115.5	131.7
82.5°	89.3	75.5	77.8	93.9	105.5
85°	59.3	55.4	52.4	68.5	74.7
87.5°	30.0	30.8	27.7	35.4	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)