

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: P292186

Luminaire Tested: **22GR-LD5-28-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292186
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-LD5-28-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3041.0 lumens
Efficiency: N/A
Efficacy: 131.9 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

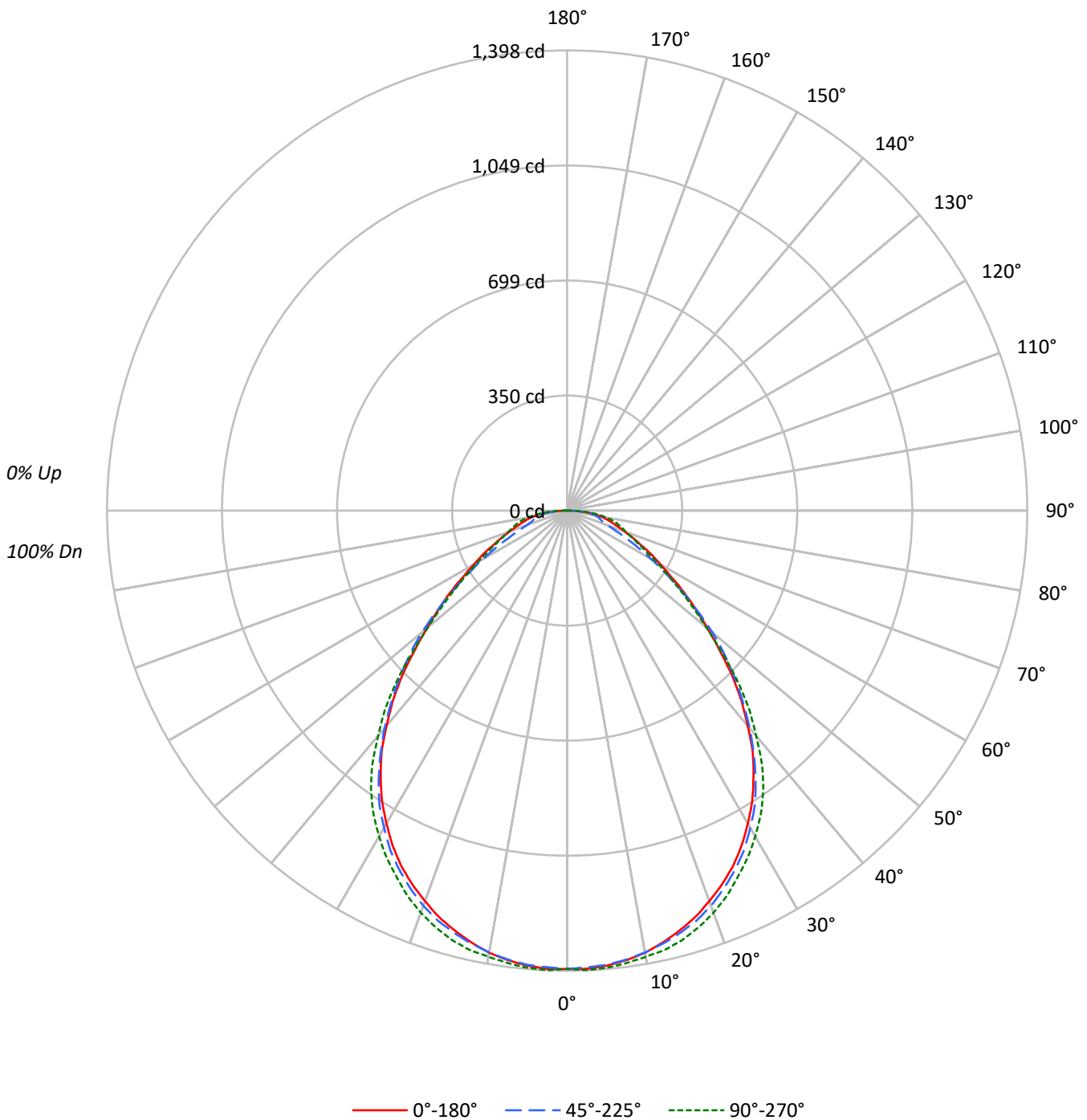
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3748	3748	3748
5°	3749	3743	3766
10°	3726	3724	3761
15°	3679	3699	3763
20°	3615	3658	3723
25°	3538	3578	3643
30°	3411	3457	3551
35°	3243	3280	3413
40°	2998	3030	3137
45°	2693	2742	2785
50°	2328	2411	2305
55°	2032	1979	1952
60°	1759	1584	1691
65°	1573	1244	1519
70°	1459	1030	1498
75°	1457	1089	1663
80°	1612	1371	1875
85°	1683	1485	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	4.3
10°-20°	375.4	12.3
20°-30°	555.1	18.3
30°-40°	626.5	20.6
40°-50°	552.2	18.2
50°-60°	378.8	12.5
60°-70°	223.5	7.4
70°-80°	139.5	4.6
80°-90°	58.2	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°	1062.3	34.9
0°-40°	1688.7	55.5
0°-60°	2619.8	86.1
0°-90°	3041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1393	1393	1393	1393	1393	
5°	1388	1385	1386	1390	1394	132
15°	1320	1322	1328	1344	1351	372
25°	1192	1196	1205	1221	1227	547
35°	987	996	998	1023	1039	615
45°	708	711	720	725	732	544
55°	433	422	422	408	416	388
65°	247	217	195	226	238	249
75°	140	126	105	146	160	150
85°	54	51	48	63	69	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1392.7	1392.7	1392.7	1392.7	1392.7
2.5°	1393.4	1389.8	1388.4	1394.1	1397.6
5°	1387.7	1384.9	1385.6	1390.5	1394.1
7.5°	1377.8	1375.7	1375.7	1382.8	1386.3
10°	1363.7	1362.9	1362.9	1371.4	1376.4
12.5°	1343.8	1344.5	1347.4	1358.7	1367.2
15°	1320.5	1321.9	1327.6	1343.8	1350.9
17.5°	1295.0	1295.0	1306.3	1319.1	1327.6
20°	1262.5	1264.6	1277.3	1291.5	1300.0
22.5°	1229.2	1232.7	1243.4	1259.6	1267.4
25°	1191.7	1195.9	1205.1	1220.7	1227.1
27.5°	1147.8	1153.5	1163.4	1174.7	1188.2
30°	1097.6	1106.1	1112.4	1128.0	1142.9
32.5°	1046.6	1054.4	1061.5	1077.8	1094.7
35°	987.2	995.7	998.5	1022.6	1038.8
37.5°	926.3	929.9	931.3	955.3	973.0
40°	853.4	860.5	862.6	881.7	893.1
42.5°	783.4	786.2	790.5	804.6	818.1
45°	707.7	711.2	720.4	724.6	731.7
47.5°	628.4	639.0	649.6	636.2	636.9
50°	556.2	564.7	576.0	550.6	550.6
52.5°	491.8	496.1	496.8	475.5	479.8
55°	433.1	422.5	421.8	407.6	416.1
57.5°	374.4	360.2	355.2	351.0	360.9
60°	326.9	301.5	294.4	300.8	314.2
62.5°	288.0	255.5	242.0	258.3	270.3
65°	247.0	217.3	195.3	225.7	238.5
67.5°	215.1	186.8	158.5	201.7	210.9
70°	185.4	163.5	130.9	183.3	190.4
72.5°	161.3	144.4	113.2	165.6	174.1
75°	140.1	126.0	104.7	146.5	159.9
77.5°	123.1	107.6	97.7	126.7	142.9
80°	104.0	88.5	88.5	106.1	121.0
82.5°	82.1	69.4	71.5	86.3	96.9
85°	54.5	51.0	48.1	63.0	68.6
87.5°	27.6	28.3	25.5	32.6	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)