

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: P292382

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3035.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

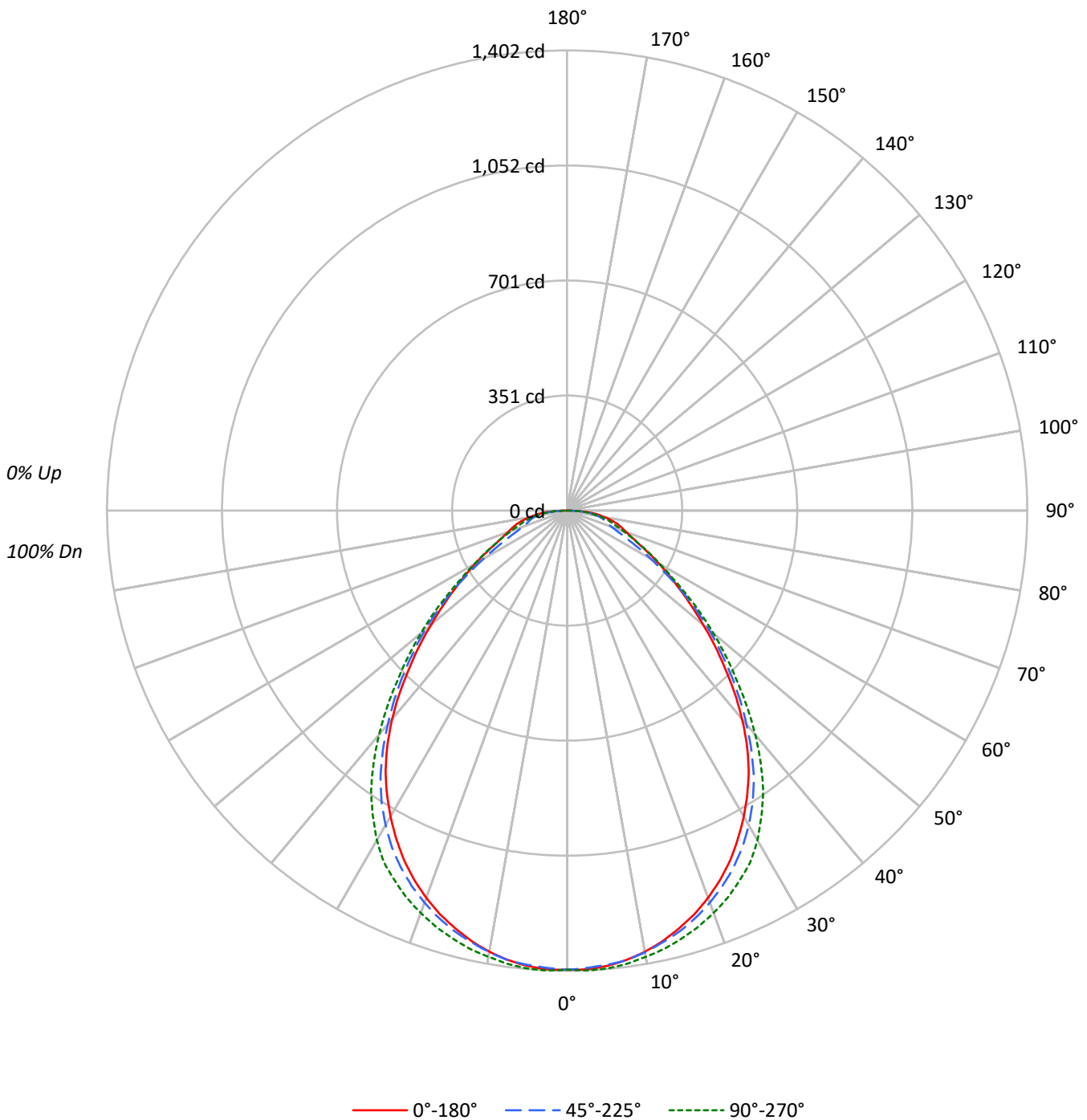
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3765	3765	3765
5°	3762	3752	3783
10°	3730	3734	3772
15°	3671	3696	3760
20°	3595	3641	3735
25°	3490	3561	3692
30°	3344	3439	3604
35°	3168	3257	3422
40°	2913	2986	3134
45°	2588	2682	2779
50°	2260	2364	2435
55°	1965	1992	2065
60°	1729	1584	1763
65°	1536	1266	1545
70°	1509	1124	1426
75°	1648	1236	1457
80°	1810	1469	1557
85°	2164	1704	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	4.4
10°-20°	375.0	12.4
20°-30°	553.5	18.2
30°-40°	619.4	20.4
40°-50°	543.9	17.9
50°-60°	384.9	12.7
60°-70°	224.0	7.4
70°-80°	139.6	4.6
80°-90°	62.5	2.1
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°	1060.7	34.9
0°-40°	1680.1	55.4
0°-60°	2608.9	86.0
0°-90°	3035.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1393	1389	1389	1396	1400	132
15°	1318	1320	1327	1341	1350	371
25°	1175	1180	1199	1228	1243	540
35°	964	969	991	1021	1042	600
45°	680	688	705	722	730	526
55°	419	427	425	432	440	379
65°	241	222	199	216	243	245
75°	158	137	119	122	140	166
85°	70	73	55	54	57	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.0	1399.0	1399.0	1399.0	1399.0
2.5°	1399.0	1396.2	1394.7	1399.7	1402.5
5°	1392.6	1389.1	1389.1	1396.2	1400.4
7.5°	1381.3	1377.8	1382.0	1388.4	1392.6
10°	1365.0	1363.6	1366.4	1374.9	1380.6
12.5°	1343.8	1344.5	1347.3	1360.8	1367.8
15°	1317.6	1320.4	1326.8	1341.0	1349.5
17.5°	1289.3	1291.4	1301.3	1317.6	1329.6
20°	1255.3	1259.6	1271.6	1292.1	1304.2
22.5°	1217.8	1222.8	1237.6	1262.4	1277.3
25°	1175.4	1180.3	1199.4	1227.7	1243.3
27.5°	1127.3	1135.0	1156.3	1187.4	1208.6
30°	1076.3	1082.7	1106.7	1142.1	1159.8
32.5°	1021.8	1029.6	1052.2	1086.2	1101.8
35°	964.5	968.7	991.4	1021.1	1041.6
37.5°	899.4	901.5	922.7	950.3	968.7
40°	829.3	830.8	849.9	876.0	892.3
42.5°	756.5	757.2	777.7	797.5	811.7
45°	680.0	687.8	704.8	721.8	730.3
47.5°	611.4	617.1	632.6	647.5	655.3
50°	539.9	554.1	564.7	572.5	581.7
52.5°	478.4	490.4	493.2	502.4	510.2
55°	418.9	427.4	424.6	432.4	440.1
57.5°	368.7	364.4	355.2	368.7	378.6
60°	321.3	309.9	294.4	312.8	327.6
62.5°	278.8	260.4	241.3	259.7	284.5
65°	241.3	222.2	198.8	216.5	242.7
67.5°	213.0	193.2	165.6	183.3	209.5
70°	191.8	171.2	142.9	157.8	181.2
72.5°	174.8	152.8	128.1	138.0	157.8
75°	158.5	136.6	118.9	121.7	140.1
77.5°	139.4	123.1	109.0	107.6	121.7
80°	116.8	111.8	94.8	92.7	100.5
82.5°	96.2	94.1	77.8	75.7	78.5
85°	70.1	72.9	55.2	53.8	56.6
87.5°	36.8	40.3	29.0	30.4	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)