

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: P292379

Luminaire Tested: **22GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292379
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-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2990.0 lumens
Efficiency: N/A
Efficacy: 132.3 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

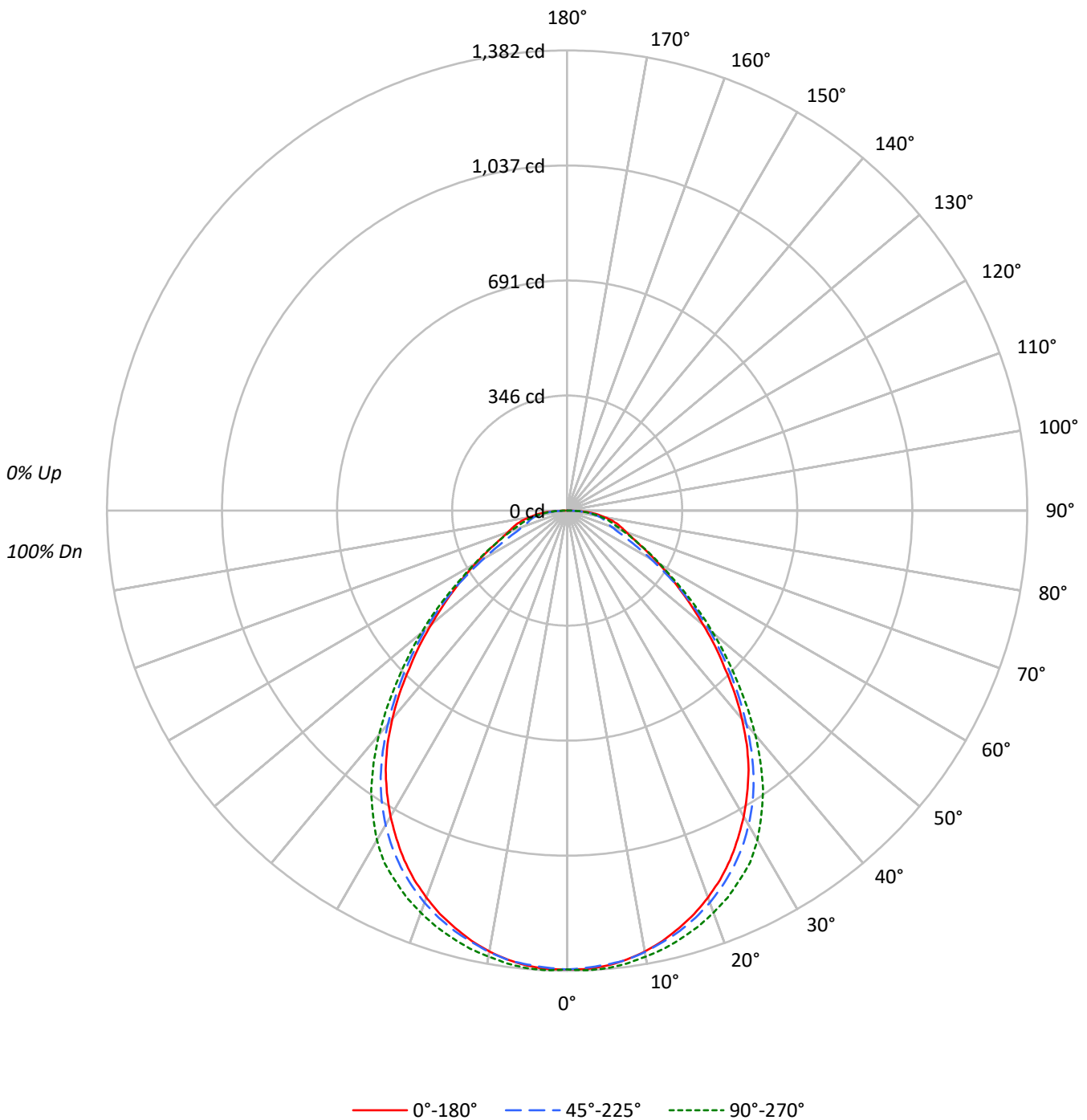
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3709	3709	3709
5°	3706	3697	3727
10°	3675	3678	3716
15°	3616	3641	3704
20°	3542	3588	3679
25°	3438	3508	3637
30°	3295	3388	3550
35°	3121	3209	3371
40°	2870	2941	3088
45°	2549	2642	2738
50°	2227	2329	2399
55°	1936	1962	2034
60°	1703	1561	1737
65°	1514	1247	1522
70°	1486	1108	1404
75°	1624	1218	1435
80°	1782	1447	1534
85°	2130	1680	1723



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	4.4
10°-20°	369.4	12.4
20°-30°	545.3	18.2
30°-40°	610.2	20.4
40°-50°	535.9	17.9
50°-60°	379.2	12.7
60°-70°	220.7	7.4
70°-80°	137.5	4.6
80°-90°	61.5	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°	1045.0	34.9
0°-40°	1655.2	55.4
0°-60°	2570.2	86.0
0°-90°	2990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1372	1368	1368	1376	1380	130
15°	1298	1301	1307	1321	1329	366
25°	1158	1163	1182	1210	1225	532
35°	950	954	977	1006	1026	591
45°	670	678	694	711	719	518
55°	413	421	418	426	434	373
65°	238	219	196	213	239	241
75°	156	134	117	120	138	163
85°	69	72	54	53	56	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.2	1378.2	1378.2	1378.2	1378.2
2.5°	1378.2	1375.5	1374.1	1378.9	1381.7
5°	1372.0	1368.5	1368.5	1375.5	1379.6
7.5°	1360.8	1357.3	1361.5	1367.8	1372.0
10°	1344.8	1343.4	1346.2	1354.5	1360.1
12.5°	1323.9	1324.6	1327.4	1340.6	1347.6
15°	1298.1	1300.9	1307.1	1321.1	1329.4
17.5°	1270.2	1272.3	1282.0	1298.1	1309.9
20°	1236.7	1240.9	1252.8	1273.0	1284.8
22.5°	1199.8	1204.7	1219.3	1243.7	1258.3
25°	1157.9	1162.8	1181.6	1209.5	1224.9
27.5°	1110.5	1118.2	1139.1	1169.8	1190.7
30°	1060.3	1066.6	1090.3	1125.2	1142.6
32.5°	1006.7	1014.3	1036.6	1070.1	1085.4
35°	950.2	954.4	976.7	1006.0	1026.2
37.5°	886.1	888.2	909.1	936.3	954.4
40°	817.0	818.4	837.3	863.1	879.1
42.5°	745.2	745.9	766.2	785.7	799.6
45°	669.9	677.6	694.3	711.1	719.4
47.5°	602.3	607.9	623.2	637.9	645.5
50°	531.9	545.9	556.3	564.0	573.0
52.5°	471.3	483.1	485.9	495.0	502.6
55°	412.7	421.1	418.3	426.0	433.6
57.5°	363.2	359.0	350.0	363.2	373.0
60°	316.5	305.3	290.0	308.1	322.8
62.5°	274.7	256.5	237.7	255.8	280.2
65°	237.7	218.9	195.9	213.3	239.1
67.5°	209.8	190.3	163.1	180.6	206.4
70°	188.9	168.7	140.8	155.5	178.5
72.5°	172.2	150.6	126.2	135.9	155.5
75°	156.2	134.5	117.1	119.9	138.0
77.5°	137.3	121.3	107.4	106.0	119.9
80°	115.0	110.1	93.4	91.3	99.0
82.5°	94.8	92.7	76.7	74.6	77.4
85°	69.0	71.8	54.4	53.0	55.8
87.5°	36.3	39.7	28.6	30.0	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)