

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: P291204

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

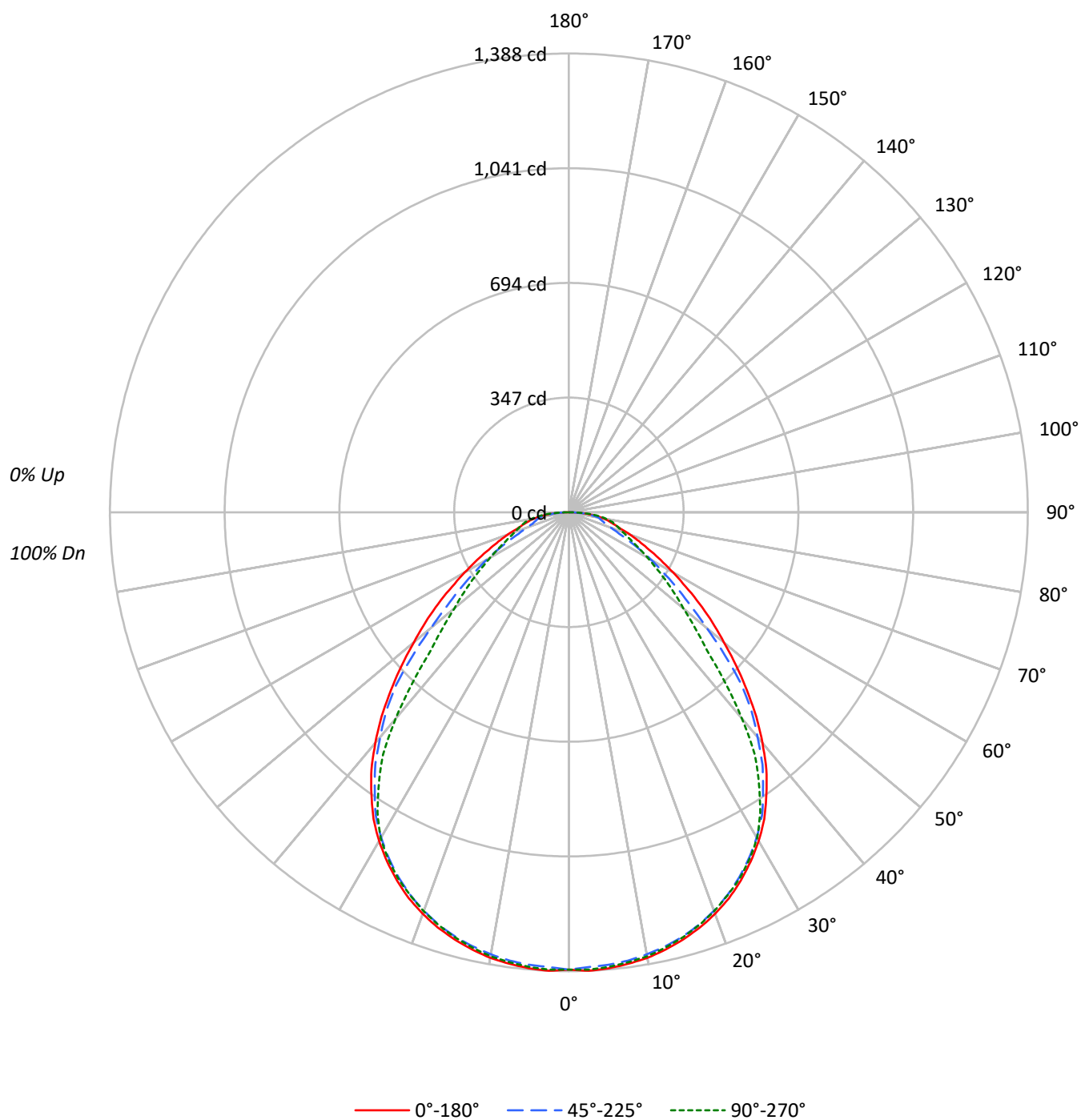
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3722	3722	3722
5°	3740	3712	3729
10°	3739	3710	3726
15°	3726	3702	3708
20°	3701	3673	3677
25°	3651	3618	3629
30°	3568	3529	3537
35°	3421	3363	3292
40°	3199	3120	2863
45°	2895	2812	2245
50°	2561	2276	1893
55°	2267	1871	1669
60°	1956	1548	1480
65°	1701	1231	1361
70°	1538	1057	1361
75°	1476	1104	1521
80°	1646	1406	1776
85°	1738	1497	2127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	4.3
10°-20°	376.0	12.4
20°-30°	562.7	18.6
30°-40°	637.0	21.0
40°-50°	542.6	17.9
50°-60°	367.3	12.1
60°-70°	219.3	7.2
70°-80°	137.0	4.5
80°-90°	57.9	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°	1069.9	35.3
0°-40°	1706.8	56.3
0°-60°	2616.7	86.3
0°-90°	3031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1383	1383	1383	1383	1383	
5°	1384	1381	1374	1382	1380	132
15°	1337	1332	1329	1337	1331	377
25°	1230	1226	1219	1224	1222	566
35°	1041	1035	1024	1013	1002	649
45°	761	763	739	630	590	587
55°	483	456	399	356	356	432
65°	267	223	193	207	214	269
75°	142	127	106	139	146	153
85°	56	52	48	61	69	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1383.1	1383.1	1383.1	1383.1	1383.1
2.5°	1388.1	1384.5	1376.8	1386.0	1384.5
5°	1384.5	1381.0	1374.0	1382.4	1380.3
7.5°	1377.5	1374.0	1367.7	1376.1	1372.6
10°	1368.4	1364.2	1357.8	1367.0	1363.5
12.5°	1354.3	1350.1	1344.5	1353.6	1348.7
15°	1337.4	1332.5	1329.0	1337.4	1331.1
17.5°	1317.0	1312.8	1307.9	1316.3	1309.3
20°	1292.4	1288.9	1282.6	1287.5	1284.0
22.5°	1264.3	1259.4	1253.1	1258.7	1253.8
25°	1229.8	1226.3	1218.6	1224.2	1222.1
27.5°	1190.5	1188.4	1179.2	1186.3	1182.7
30°	1148.3	1142.7	1135.6	1137.7	1138.4
32.5°	1099.8	1092.7	1087.1	1082.2	1077.3
35°	1041.4	1035.1	1023.8	1013.3	1002.0
37.5°	980.9	972.5	961.2	938.0	924.0
40°	910.6	906.4	888.1	855.8	815.0
42.5°	838.9	834.7	818.5	746.1	701.8
45°	760.8	762.9	739.0	630.0	590.0
47.5°	686.3	691.9	639.9	537.9	516.8
50°	611.8	618.1	543.6	464.8	452.1
52.5°	546.4	541.4	463.4	407.8	402.2
55°	483.1	456.4	398.7	355.8	355.8
57.5°	418.4	380.4	338.9	311.5	311.5
60°	363.5	316.4	287.6	269.3	274.9
62.5°	312.9	263.0	238.4	234.9	241.9
65°	267.2	222.9	193.4	206.7	213.8
67.5°	229.9	190.6	158.9	187.0	191.3
70°	195.5	165.9	134.3	172.3	173.0
72.5°	163.8	146.3	115.3	156.1	158.9
75°	142.0	127.3	106.2	139.2	146.3
77.5°	124.5	109.0	97.7	120.2	133.6
80°	106.2	89.3	90.7	101.3	114.6
82.5°	81.6	68.9	71.7	83.0	93.5
85°	56.3	52.0	48.5	61.2	68.9
87.5°	30.2	28.1	24.6	34.5	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)