

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: P291205

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291205
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3039.0 lumens
Efficiency: N/A
Efficacy: 132.8 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

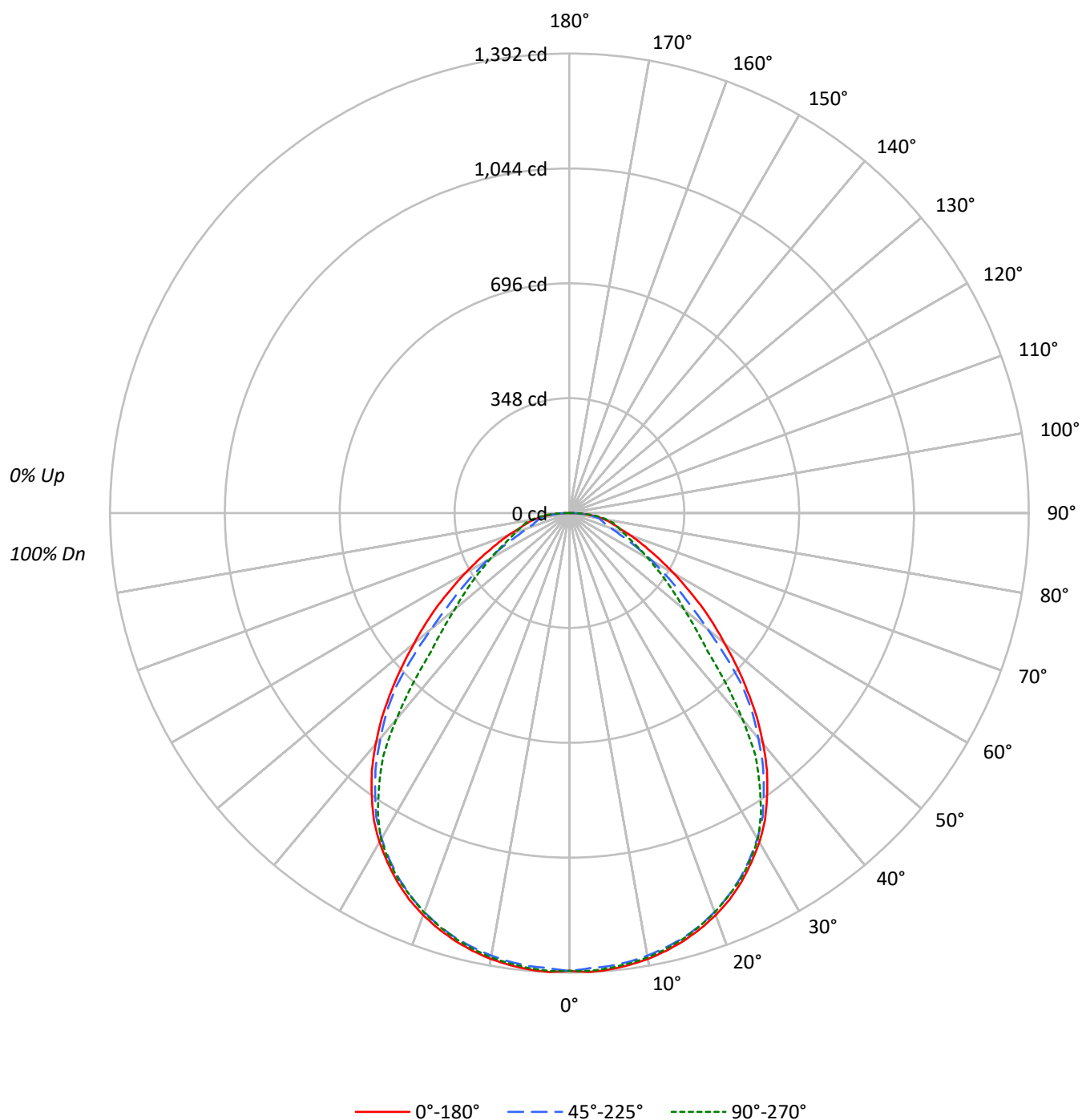
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		64
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		36
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3732	3732	3732
5°	3750	3721	3739
10°	3749	3720	3736
15°	3736	3712	3718
20°	3711	3683	3687
25°	3661	3628	3638
30°	3577	3538	3547
35°	3430	3372	3301
40°	3207	3128	2870
45°	2903	2820	2251
50°	2568	2282	1898
55°	2273	1876	1673
60°	1962	1552	1484
65°	1706	1235	1365
70°	1542	1060	1364
75°	1481	1107	1524
80°	1650	1409	1781
85°	1741	1501	2133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	4.3
10°-20°	377.0	12.4
20°-30°	564.2	18.6
30°-40°	638.6	21.0
40°-50°	544.0	17.9
50°-60°	368.3	12.1
60°-70°	219.9	7.2
70°-80°	137.4	4.5
80°-90°	58.1	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°	1072.7	35.3
0°-40°	1711.3	56.3
0°-60°	2623.6	86.3
0°-90°	3039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1388	1385	1378	1386	1384	132
15°	1341	1336	1332	1341	1335	378
25°	1233	1230	1222	1228	1225	567
35°	1044	1038	1026	1016	1005	651
45°	763	765	741	632	592	588
55°	484	458	400	357	357	433
65°	268	224	194	207	214	270
75°	142	128	106	140	147	154
85°	56	52	49	61	69	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.8	1386.8	1386.8	1386.8	1386.8
2.5°	1391.7	1388.2	1380.4	1389.6	1388.2
5°	1388.2	1384.7	1377.6	1386.1	1384.0
7.5°	1381.2	1377.6	1371.3	1379.7	1376.2
10°	1372.0	1367.8	1361.4	1370.6	1367.1
12.5°	1357.9	1353.7	1348.0	1357.2	1352.2
15°	1341.0	1336.0	1332.5	1341.0	1334.6
17.5°	1320.5	1316.3	1311.4	1319.8	1312.8
20°	1295.8	1292.3	1286.0	1290.9	1287.4
22.5°	1267.6	1262.7	1256.4	1262.0	1257.1
25°	1233.1	1229.6	1221.8	1227.5	1225.3
27.5°	1193.6	1191.5	1182.3	1189.4	1185.9
30°	1151.3	1145.7	1138.6	1140.7	1141.4
32.5°	1102.7	1095.6	1090.0	1085.0	1080.1
35°	1044.1	1037.8	1026.5	1015.9	1004.7
37.5°	983.5	975.1	963.8	940.5	926.4
40°	913.0	908.8	890.5	858.0	817.1
42.5°	841.1	836.9	820.7	748.0	703.6
45°	762.8	765.0	741.0	631.7	591.5
47.5°	688.1	693.7	641.6	539.3	518.2
50°	613.4	619.7	545.0	466.0	453.3
52.5°	547.8	542.9	464.6	408.9	403.3
55°	484.4	457.6	399.8	356.7	356.7
57.5°	419.5	381.4	339.8	312.3	312.3
60°	364.5	317.3	288.4	270.0	275.7
62.5°	313.7	263.7	239.0	235.5	242.5
65°	267.9	223.5	193.9	207.3	214.3
67.5°	230.5	191.1	159.3	187.5	191.8
70°	196.0	166.4	134.7	172.7	173.4
72.5°	164.3	146.6	115.6	156.5	159.3
75°	142.4	127.6	106.5	139.6	146.6
77.5°	124.8	109.3	98.0	120.6	134.0
80°	106.5	89.5	90.9	101.5	114.9
82.5°	81.8	69.1	71.9	83.2	93.8
85°	56.4	52.2	48.6	61.3	69.1
87.5°	30.3	28.2	24.7	34.5	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)