

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: P291158

Luminaire Tested: **14GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291158
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

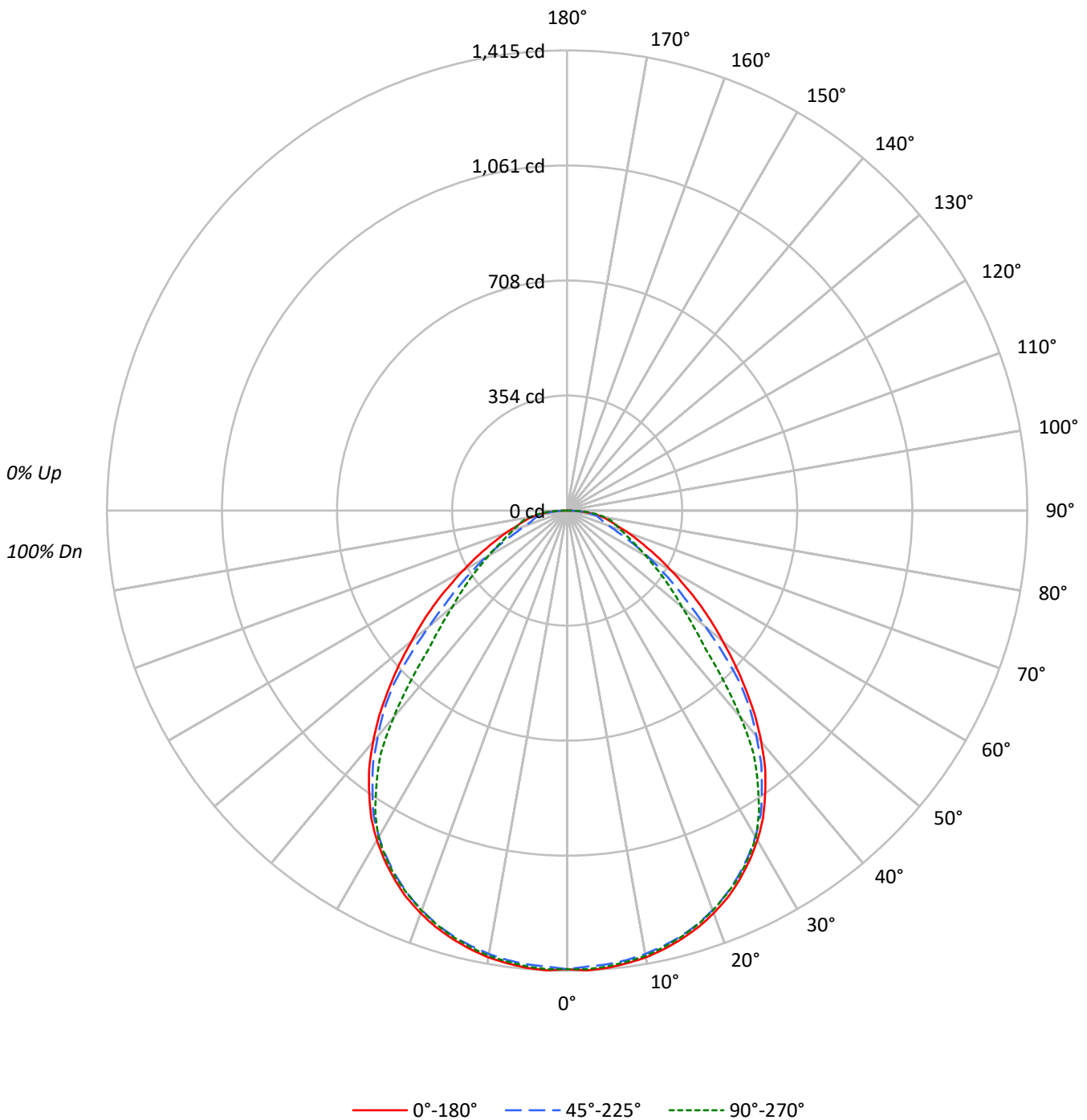
Input Watts (W): 23.343
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291158

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P291158

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K

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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56					56			
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50					50			
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44					44			
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40					40			
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36					36			
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33					33			
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3795	3795	3795
5°	3813	3784	3801
10°	3812	3783	3798
15°	3799	3775	3780
20°	3773	3745	3749
25°	3723	3689	3699
30°	3637	3597	3606
35°	3488	3429	3356
40°	3261	3181	2918
45°	2952	2867	2289
50°	2611	2320	1930
55°	2311	1907	1702
60°	1995	1578	1509
65°	1734	1255	1387
70°	1568	1077	1387
75°	1506	1125	1550
80°	1677	1433	1810
85°	1769	1528	2171



TEST NUMBER: P291158

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	4.3
10°-20°	383.3	12.4
20°-30°	573.6	18.6
30°-40°	649.4	21.0
40°-50°	553.1	17.9
50°-60°	374.5	12.1
60°-70°	223.6	7.2
70°-80°	139.7	4.5
80°-90°	59.0	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°	1090.7	35.3
0°-40°	1740.1	56.3
0°-60°	2667.7	86.3
0°-90°	3090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3090.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1412	1408	1401	1409	1407	134
15°	1364	1358	1355	1364	1357	385
25°	1254	1250	1242	1248	1246	577
35°	1062	1055	1044	1033	1022	662
45°	776	778	753	642	601	598
55°	492	465	406	363	363	440
65°	272	227	197	211	218	275
75°	145	130	108	142	149	156
85°	57	53	50	62	70	61
90°	0	0	0	0	0	



TEST NUMBER: P291158

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L83050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1415.1	1411.5	1403.6	1412.9	1411.5
5°	1411.5	1407.9	1400.7	1409.3	1407.2
7.5°	1404.3	1400.7	1394.3	1402.9	1399.3
10°	1395.0	1390.7	1384.3	1393.6	1390.0
12.5°	1380.7	1376.4	1370.6	1380.0	1374.9
15°	1363.5	1358.5	1354.9	1363.5	1357.0
17.5°	1342.7	1338.4	1333.4	1342.0	1334.8
20°	1317.6	1314.0	1307.6	1312.6	1309.0
22.5°	1288.9	1283.9	1277.4	1283.2	1278.2
25°	1253.8	1250.2	1242.3	1248.1	1245.9
27.5°	1213.6	1211.5	1202.2	1209.3	1205.8
30°	1170.6	1164.9	1157.7	1159.9	1160.6
32.5°	1121.2	1114.0	1108.3	1103.2	1098.2
35°	1061.7	1055.2	1043.7	1033.0	1021.5
37.5°	1000.0	991.4	979.9	956.3	942.0
40°	928.3	924.0	905.4	872.4	830.8
42.5°	855.2	850.9	834.4	760.6	715.4
45°	775.6	777.8	753.4	642.3	601.4
47.5°	699.7	705.4	652.3	548.4	526.9
50°	623.7	630.1	554.1	473.8	460.9
52.5°	557.0	552.0	472.4	415.8	410.0
55°	492.5	465.2	406.5	362.7	362.7
57.5°	426.5	387.8	345.5	317.6	317.6
60°	370.6	322.6	293.2	274.6	280.3
62.5°	319.0	268.1	243.0	239.4	246.6
65°	272.4	227.2	197.1	210.8	217.9
67.5°	234.4	194.3	162.0	190.7	195.0
70°	199.3	169.2	136.9	175.6	176.3
72.5°	167.0	149.1	117.6	159.1	162.0
75°	144.8	129.8	108.2	141.9	149.1
77.5°	126.9	111.1	99.6	122.6	136.2
80°	108.2	91.0	92.5	103.2	116.8
82.5°	83.2	70.3	73.1	84.6	95.3
85°	57.3	53.0	49.5	62.4	70.3
87.5°	30.8	28.7	25.1	35.1	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)