

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: P291203

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291203
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-5000K
Description: GRLED 1x4 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: 3001.0 lumens
Efficiency: N/A
Efficacy: 131.7 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

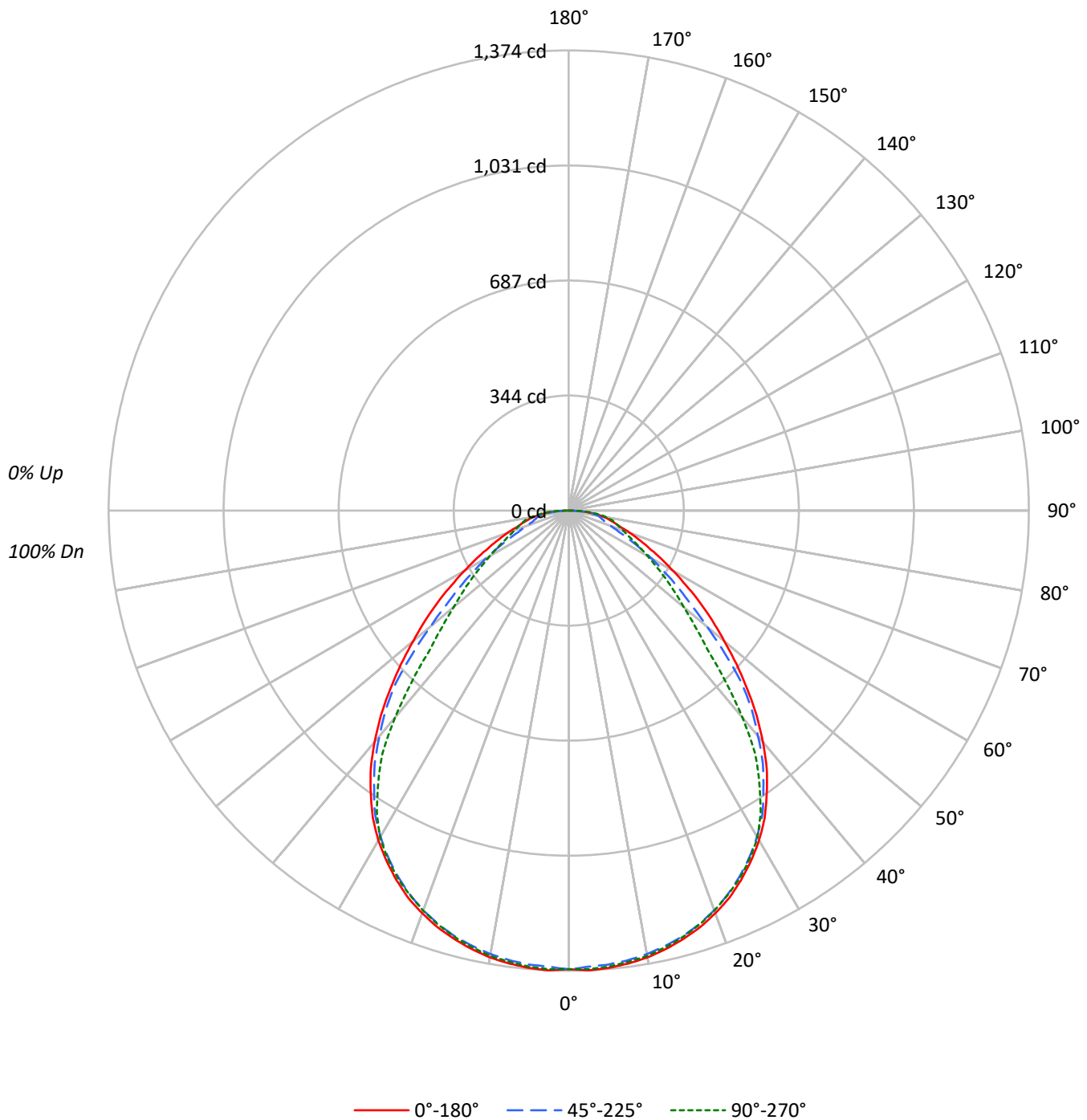
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291203

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291203

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3685	3685	3685
5°	3703	3675	3692
10°	3702	3674	3689
15°	3689	3666	3672
20°	3664	3637	3641
25°	3616	3582	3593
30°	3533	3494	3503
35°	3387	3330	3259
40°	3167	3089	2834
45°	2867	2785	2223
50°	2536	2253	1874
55°	2244	1852	1653
60°	1937	1533	1465
65°	1685	1219	1347
70°	1522	1046	1348
75°	1462	1093	1506
80°	1629	1392	1759
85°	1720	1482	2106



TEST NUMBER: P291203

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	4.3
10°-20°	372.3	12.4
20°-30°	557.1	18.6
30°-40°	630.6	21.0
40°-50°	537.2	17.9
50°-60°	363.7	12.1
60°-70°	217.2	7.2
70°-80°	135.7	4.5
80°-90°	57.3	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°	1059.3	35.3
0°-40°	1689.9	56.3
0°-60°	2590.8	86.3
0°-90°	3001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3001.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1371	1367	1360	1369	1367	130
15°	1324	1319	1316	1324	1318	374
25°	1218	1214	1206	1212	1210	560
35°	1031	1025	1014	1003	992	643
45°	753	755	732	624	584	581
55°	478	452	395	352	352	428
65°	265	221	192	205	212	267
75°	141	126	105	138	145	152
85°	56	52	48	61	68	60
90°	0	0	0	0	0	



TEST NUMBER: P291203

CATALOG NUMBER: 14GR-LD5-28-A125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.5	1369.5	1369.5	1369.5	1369.5
2.5°	1374.3	1370.8	1363.2	1372.2	1370.8
5°	1370.8	1367.4	1360.4	1368.8	1366.7
7.5°	1363.9	1360.4	1354.1	1362.5	1359.0
10°	1354.8	1350.7	1344.4	1353.4	1350.0
12.5°	1340.9	1336.7	1331.2	1340.2	1335.3
15°	1324.2	1319.3	1315.8	1324.2	1317.9
17.5°	1304.0	1299.8	1295.0	1303.3	1296.3
20°	1279.6	1276.2	1269.9	1274.8	1271.3
22.5°	1251.8	1246.9	1240.7	1246.2	1241.3
25°	1217.7	1214.2	1206.5	1212.1	1210.0
27.5°	1178.7	1176.6	1167.5	1174.5	1171.0
30°	1136.9	1131.3	1124.4	1126.5	1127.2
32.5°	1088.9	1081.9	1076.3	1071.5	1066.6
35°	1031.1	1024.8	1013.7	1003.2	992.1
37.5°	971.2	962.9	951.7	928.7	914.8
40°	901.6	897.4	879.3	847.3	806.9
42.5°	830.6	826.4	810.4	738.7	694.8
45°	753.3	755.4	731.7	623.8	584.1
47.5°	679.5	685.1	633.6	532.6	511.7
50°	605.7	612.0	538.2	460.2	447.7
52.5°	541.0	536.1	458.8	403.8	398.2
55°	478.3	451.8	394.8	352.3	352.3
57.5°	414.2	376.7	335.6	308.4	308.4
60°	359.9	313.3	284.8	266.6	272.2
62.5°	309.8	260.4	236.0	232.5	239.5
65°	264.6	220.7	191.5	204.7	211.6
67.5°	227.7	188.7	157.3	185.2	189.4
70°	193.5	164.3	133.0	170.6	171.3
72.5°	162.2	144.8	114.2	154.6	157.3
75°	140.6	126.0	105.1	137.9	144.8
77.5°	123.2	107.9	96.8	119.1	132.3
80°	105.1	88.4	89.8	100.3	113.5
82.5°	80.8	68.2	71.0	82.2	92.6
85°	55.7	51.5	48.0	60.6	68.2
87.5°	29.9	27.8	24.4	34.1	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)