

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: P290908

Luminaire Tested: **14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2610.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

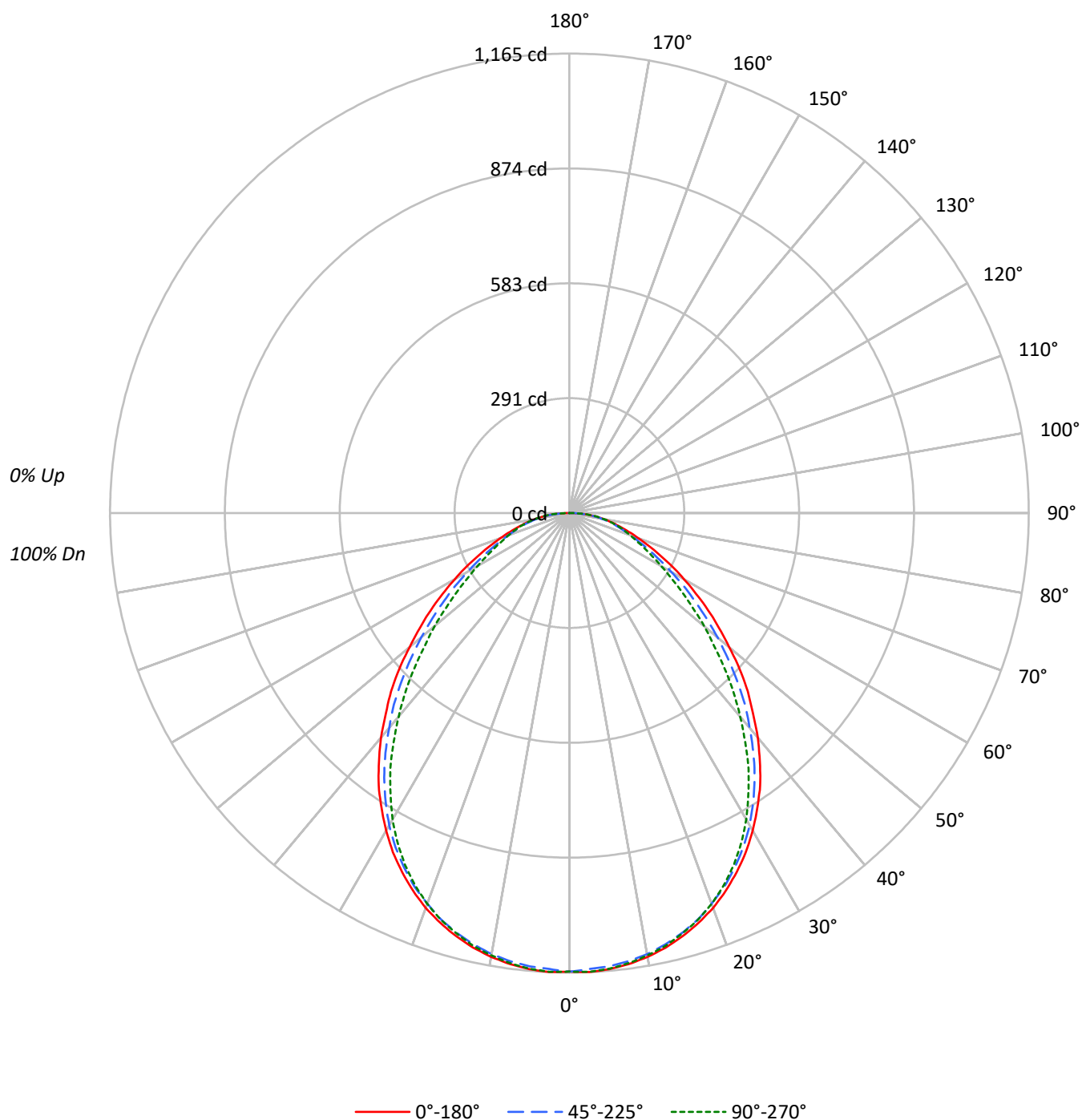
Input Watts (W): 22.599
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290908

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P290908

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K

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	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3129	3129	3129
5°	3136	3116	3133
10°	3122	3102	3112
15°	3094	3070	3075
20°	3051	3017	3019
25°	2981	2945	2925
30°	2889	2840	2787
35°	2771	2691	2602
40°	2610	2498	2367
45°	2434	2287	2117
50°	2213	2052	1870
55°	2015	1819	1630
60°	1807	1602	1447
65°	1611	1428	1330
70°	1465	1301	1287
75°	1369	1267	1331
80°	1376	1309	1385
85°	1439	1343	1531



TEST NUMBER: P290908

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	4.2
10°-20°	311.7	11.9
20°-30°	457.0	17.5
30°-40°	510.1	19.5
40°-50°	461.8	17.7
50°-60°	348.7	13.4
60°-70°	227.9	8.7
70°-80°	133.9	5.1
80°-90°	49.0	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°	878.6	33.7
0°-40°	1388.7	53.2
0°-60°	2199.2	84.3
0°-90°	2610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1161	1158	1154	1160	1160	110
15°	1111	1109	1102	1108	1104	313
25°	1004	1000	992	990	985	462
35°	844	836	819	801	792	525
45°	640	630	601	568	556	491
55°	429	420	388	357	347	384
65°	253	245	224	211	209	254
75°	132	128	122	124	128	141
85°	47	45	44	49	50	49
90°	0	0	0	0	0	



TEST NUMBER: P290908

CATALOG NUMBER: 14GR-LD5-28-F125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1164.6	1162.7	1157.2	1164.6	1164.0
5°	1160.9	1158.5	1153.5	1160.3	1159.7
7.5°	1153.5	1151.1	1146.2	1152.3	1151.1
10°	1142.5	1140.1	1135.2	1141.9	1138.8
12.5°	1128.4	1126.0	1120.5	1126.6	1124.1
15°	1110.7	1108.8	1102.1	1108.2	1103.9
17.5°	1089.2	1086.2	1081.3	1084.9	1081.9
20°	1065.3	1061.7	1053.7	1057.4	1054.3
22.5°	1036.5	1031.6	1026.1	1026.1	1021.8
25°	1004.1	1000.4	991.8	990.0	985.1
27.5°	969.2	966.1	955.1	952.0	943.4
30°	929.9	925.7	914.0	904.2	896.9
32.5°	886.5	883.4	867.5	854.6	844.2
35°	843.6	836.2	819.1	800.7	792.1
37.5°	793.3	787.8	766.4	743.7	732.1
40°	743.1	736.4	711.2	686.1	673.9
42.5°	688.6	682.5	658.6	628.5	615.7
45°	639.6	629.8	601.0	568.5	556.3
47.5°	585.7	575.2	544.6	510.3	496.2
50°	528.7	521.9	490.1	457.0	446.6
52.5°	477.8	467.4	437.4	404.9	393.9
55°	429.4	419.6	387.8	357.2	347.4
57.5°	381.0	370.0	342.5	314.9	305.1
60°	335.7	324.7	297.7	275.1	268.9
62.5°	294.7	282.4	258.5	240.8	236.5
65°	253.0	245.0	224.2	211.4	208.9
67.5°	218.1	208.3	191.7	185.6	184.4
70°	186.2	179.5	165.4	163.6	163.6
72.5°	157.4	151.9	141.5	142.7	144.6
75°	131.7	128.0	121.9	124.4	128.0
77.5°	109.7	106.0	102.3	106.0	108.4
80°	88.8	85.2	84.5	87.6	89.4
82.5°	66.8	63.7	64.3	69.2	71.1
85°	46.6	44.7	43.5	49.0	49.6
87.5°	23.9	22.7	22.1	26.3	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)