

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: P291259

Luminaire Tested: **14GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291259
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-LD5-32-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2813.0 lumens
Efficiency: N/A
Efficacy: 107.6 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

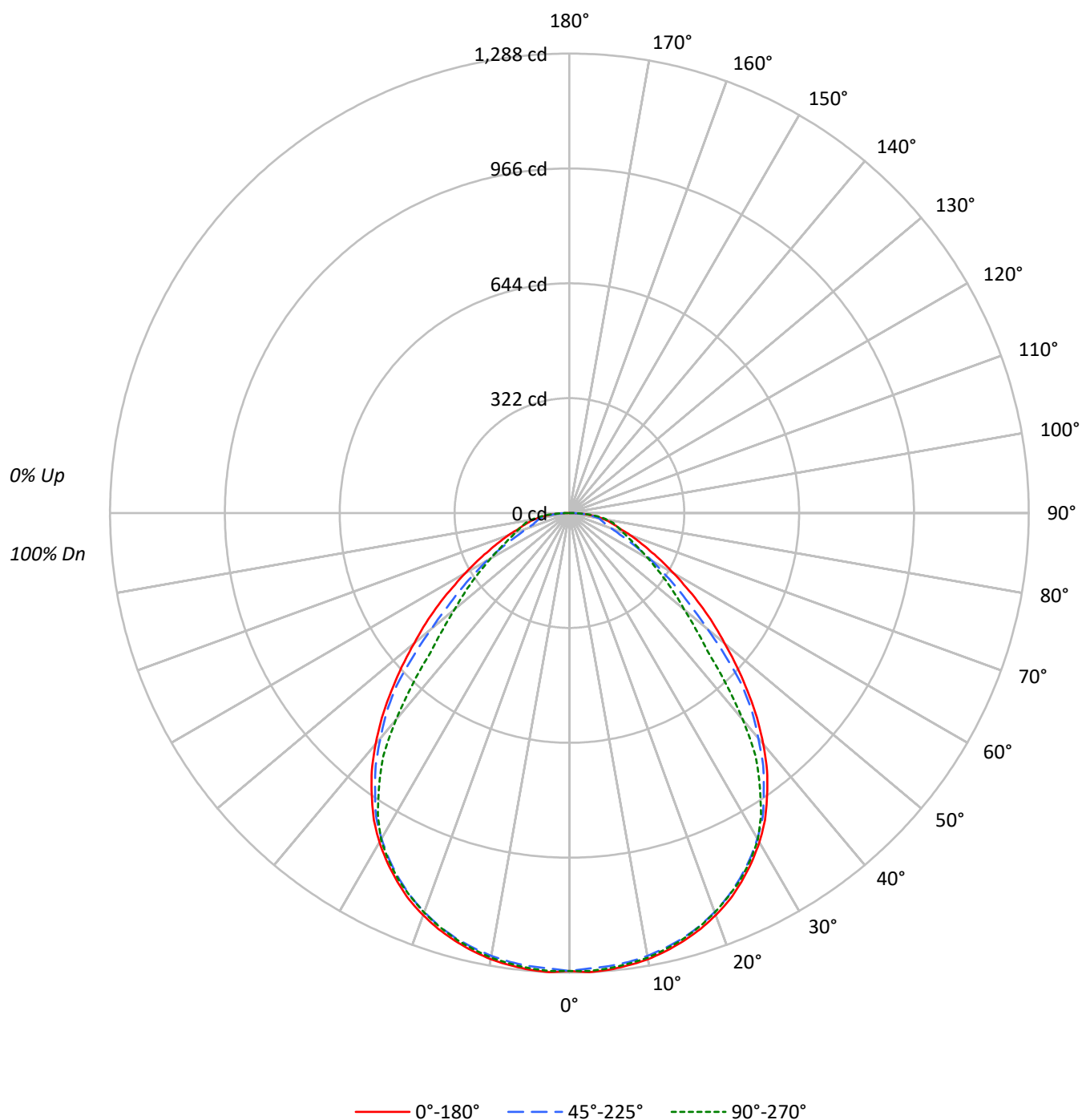
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291259

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P291259

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K

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°	3454	3454	3454
5°	3471	3445	3460
10°	3470	3443	3458
15°	3458	3436	3442
20°	3435	3409	3412
25°	3389	3358	3368
30°	3311	3275	3283
35°	3175	3121	3055
40°	2969	2895	2657
45°	2687	2610	2084
50°	2377	2112	1757
55°	2103	1736	1549
60°	1816	1436	1373
65°	1579	1143	1263
70°	1427	980	1263
75°	1370	1024	1411
80°	1526	1305	1649
85°	1612	1389	1976



TEST NUMBER: P291259

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.8	4.3
10°-20°	348.9	12.4
20°-30°	522.2	18.6
30°-40°	591.1	21.0
40°-50°	503.5	17.9
50°-60°	340.9	12.1
60°-70°	203.6	7.2
70°-80°	127.2	4.5
80°-90°	53.8	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°	992.9	35.3
0°-40°	1584.1	56.3
0°-60°	2428.5	86.3
0°-90°	2813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2813.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1285	1282	1275	1283	1281	122
15°	1241	1237	1233	1241	1235	350
25°	1141	1138	1131	1136	1134	525
35°	966	961	950	940	930	602
45°	706	708	686	585	548	545
55°	448	424	370	330	330	401
65°	248	207	180	192	198	250
75°	132	118	98	129	136	142
85°	52	48	45	57	64	56
90°	0	0	0	0	0	



TEST NUMBER: P291259

CATALOG NUMBER: 14GR-LD5-32-A125-UNV-L93050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.7	1283.7	1283.7	1283.7	1283.7
2.5°	1288.2	1285.0	1277.8	1286.3	1285.0
5°	1285.0	1281.7	1275.2	1283.0	1281.0
7.5°	1278.4	1275.2	1269.3	1277.1	1273.9
10°	1270.0	1266.0	1260.2	1268.7	1265.4
12.5°	1256.9	1253.0	1247.8	1256.3	1251.7
15°	1241.2	1236.7	1233.4	1241.2	1235.4
17.5°	1222.3	1218.4	1213.8	1221.7	1215.1
20°	1199.5	1196.2	1190.3	1194.9	1191.6
22.5°	1173.4	1168.8	1162.9	1168.2	1163.6
25°	1141.4	1138.1	1131.0	1136.2	1134.2
27.5°	1104.8	1102.9	1094.4	1100.9	1097.7
30°	1065.7	1060.5	1053.9	1055.9	1056.6
32.5°	1020.7	1014.1	1008.9	1004.3	999.8
35°	966.5	960.6	950.2	940.4	930.0
37.5°	910.4	902.5	892.1	870.6	857.5
40°	845.1	841.2	824.2	794.2	756.4
42.5°	778.5	774.6	759.6	692.4	651.3
45°	706.1	708.1	685.9	584.7	547.5
47.5°	636.9	642.2	593.9	499.2	479.7
50°	567.8	573.6	504.5	431.4	419.6
52.5°	507.1	502.5	430.1	378.5	373.3
55°	448.3	423.5	370.0	330.2	330.2
57.5°	388.3	353.1	314.6	289.1	289.1
60°	337.4	293.7	266.9	249.9	255.2
62.5°	290.4	244.1	221.2	218.0	224.5
65°	248.0	206.9	179.5	191.9	198.4
67.5°	213.4	176.9	147.5	173.6	177.5
70°	181.4	154.0	124.6	159.9	160.5
72.5°	152.1	135.7	107.0	144.9	147.5
75°	131.8	118.1	98.5	129.2	135.7
77.5°	115.5	101.2	90.7	111.6	124.0
80°	98.5	82.9	84.2	94.0	106.4
82.5°	75.7	64.0	66.6	77.0	86.8
85°	52.2	48.3	45.0	56.8	64.0
87.5°	28.1	26.1	22.8	32.0	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)