

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: P291201

Luminaire Tested: **14GR-LD5-28-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291201  
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-4000K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2910.0 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

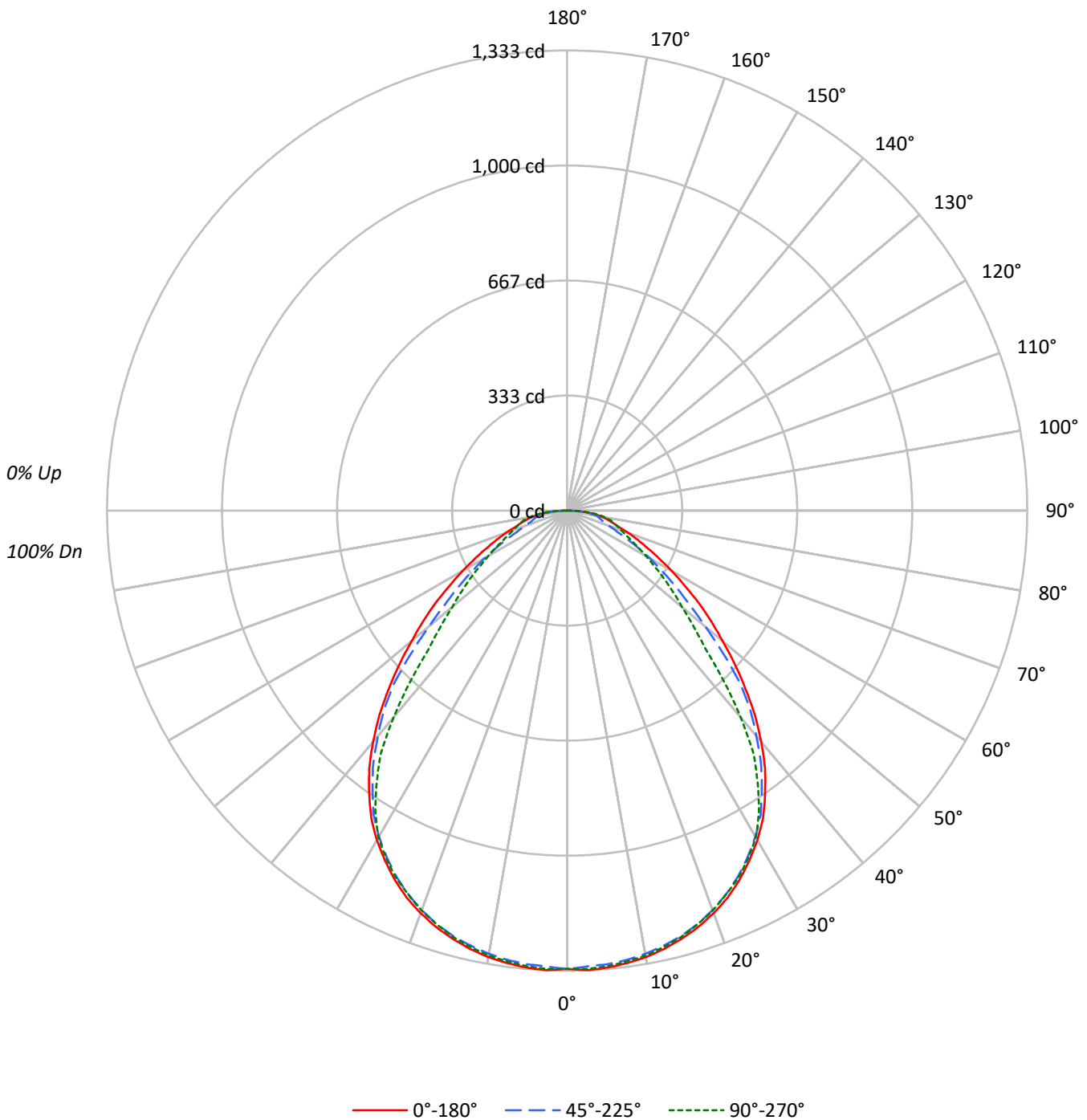
Input Watts (W): 22.506  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	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
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	51	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3573	3573	3573
5°	3591	3563	3580
10°	3590	3562	3577
15°	3577	3555	3560
20°	3553	3526	3530
25°	3506	3474	3484
30°	3425	3388	3396
35°	3284	3229	3160
40°	3071	2995	2748
45°	2780	2700	2156
50°	2459	2185	1817
55°	2176	1796	1603
60°	1878	1486	1421
65°	1633	1182	1307
70°	1477	1014	1307
75°	1418	1059	1460
80°	1579	1350	1705
85°	1667	1439	2044



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	4.3
10°-20°	361.0	12.4
20°-30°	540.2	18.6
30°-40°	611.5	21.0
40°-50°	520.9	17.9
50°-60°	352.7	12.1
60°-70°	210.6	7.2
70°-80°	131.5	4.5
80°-90°	55.6	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°	1027.2	35.3
0°-40°	1638.7	56.3
0°-60°	2512.3	86.3
0°-90°	2910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1328	1328	1328	1328	1328	
5°	1329	1326	1319	1327	1325	126
15°	1284	1279	1276	1284	1278	362
25°	1181	1177	1170	1175	1173	543
35°	1000	994	983	973	962	623
45°	730	732	710	605	566	563
55°	464	438	383	342	342	415
65°	256	214	186	198	205	259
75°	136	122	102	134	140	147
85°	54	50	47	59	66	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.9	1327.9	1327.9	1327.9	1327.9
2.5°	1332.7	1329.3	1321.8	1330.6	1329.3
5°	1329.3	1325.9	1319.1	1327.2	1325.2
7.5°	1322.5	1319.1	1313.1	1321.2	1317.8
10°	1313.7	1309.7	1303.6	1312.4	1309.0
12.5°	1300.2	1296.2	1290.8	1299.6	1294.8
15°	1284.0	1279.3	1275.9	1284.0	1278.0
17.5°	1264.5	1260.4	1255.7	1263.8	1257.0
20°	1240.8	1237.5	1231.4	1236.1	1232.7
22.5°	1213.8	1209.1	1203.0	1208.4	1203.7
25°	1180.8	1177.4	1170.0	1175.4	1173.3
27.5°	1142.9	1140.9	1132.1	1138.9	1135.5
30°	1102.4	1097.0	1090.3	1092.3	1093.0
32.5°	1055.9	1049.1	1043.7	1039.0	1034.3
35°	999.8	993.7	982.9	972.8	962.0
37.5°	941.8	933.7	922.9	900.6	887.1
40°	874.3	870.2	852.7	821.6	782.4
42.5°	805.4	801.3	785.8	716.3	673.8
45°	730.5	732.5	709.5	604.9	566.4
47.5°	658.9	664.3	614.3	516.5	496.2
50°	587.3	593.4	521.9	446.2	434.1
52.5°	524.6	519.8	444.9	391.6	386.2
55°	463.8	438.1	382.8	341.6	341.6
57.5°	401.7	365.2	325.4	299.1	299.1
60°	349.0	303.8	276.1	258.6	264.0
62.5°	300.4	252.5	228.9	225.5	232.2
65°	256.5	214.0	185.7	198.5	205.2
67.5°	220.8	183.0	152.6	179.6	183.6
70°	187.7	159.3	128.9	165.4	166.1
72.5°	157.3	140.4	110.7	149.9	152.6
75°	136.4	122.2	101.9	133.7	140.4
77.5°	119.5	104.6	93.8	115.4	128.3
80°	101.9	85.7	87.1	97.2	110.0
82.5°	78.3	66.2	68.9	79.7	89.8
85°	54.0	50.0	46.6	58.7	66.2
87.5°	29.0	27.0	23.6	33.1	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)