

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: P291253

Luminaire Tested: **14GR-LD5-28-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291253  
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-L93050-W2A1-U-3000K  
Description: GRLED 1x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2267.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

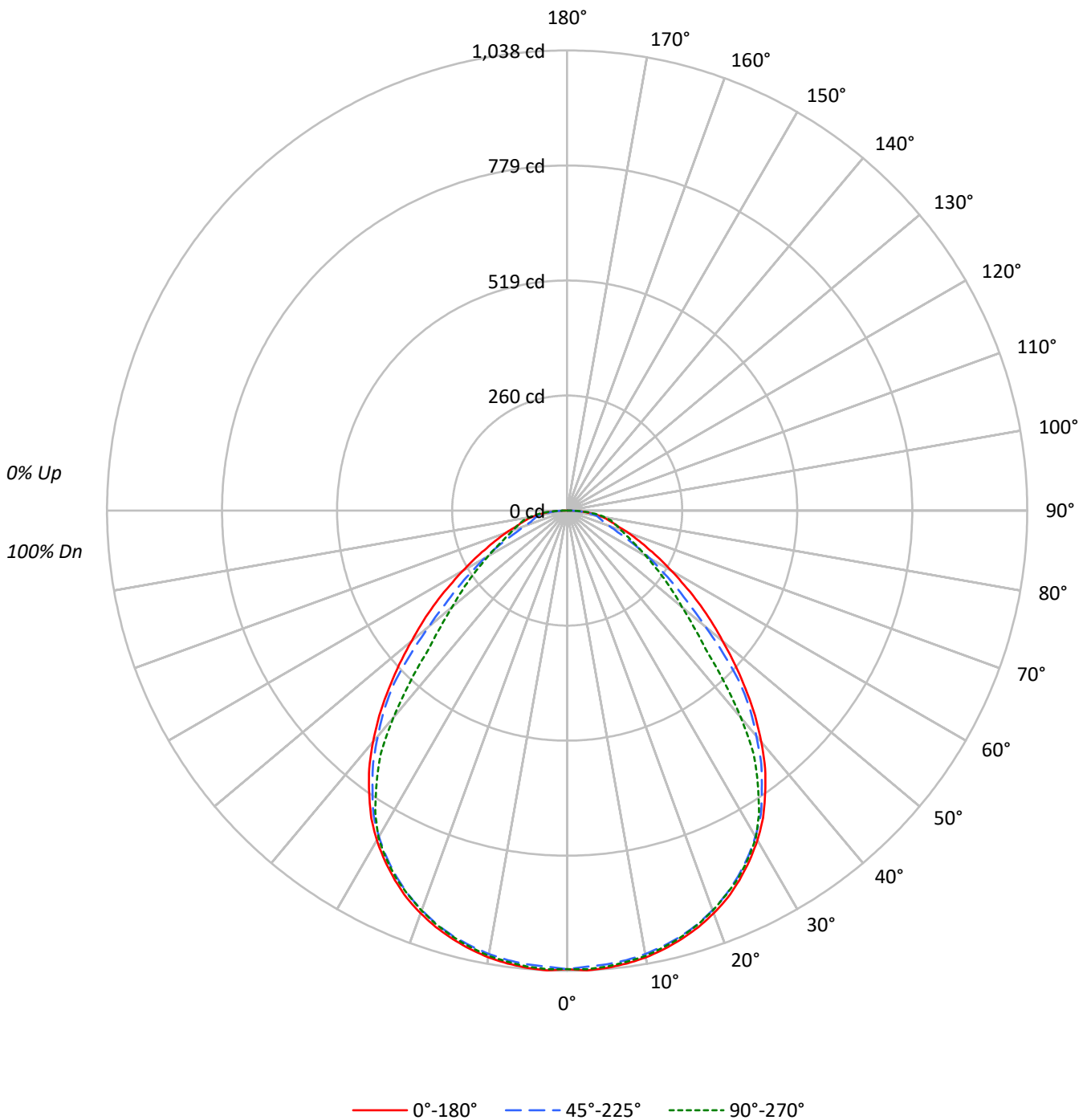
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2784	2784	2784
5°	2797	2776	2789
10°	2797	2775	2787
15°	2787	2769	2774
20°	2768	2747	2750
25°	2731	2706	2714
30°	2669	2639	2646
35°	2559	2516	2462
40°	2393	2333	2141
45°	2166	2104	1679
50°	1916	1702	1416
55°	1695	1399	1248
60°	1463	1158	1107
65°	1273	921	1018
70°	1150	791	1018
75°	1104	826	1137
80°	1230	1051	1328
85°	1300	1121	1590



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	4.3
10°-20°	281.2	12.4
20°-30°	420.9	18.6
30°-40°	476.4	21.0
40°-50°	405.8	17.9
50°-60°	274.7	12.1
60°-70°	164.0	7.2
70°-80°	102.5	4.5
80°-90°	43.3	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°	800.2	35.3
0°-40°	1276.6	56.3
0°-60°	1957.1	86.3
0°-90°	2267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2267.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1036	1033	1028	1034	1032	98
15°	1000	997	994	1000	996	282
25°	920	917	911	916	914	423
35°	779	774	766	758	749	485
45°	569	571	553	471	441	439
55°	361	341	298	266	266	323
65°	200	167	145	155	160	201
75°	106	95	79	104	109	115
85°	42	39	36	46	52	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1034.5	1034.5	1034.5	1034.5	1034.5
2.5°	1038.2	1035.6	1029.8	1036.6	1035.6
5°	1035.6	1032.9	1027.7	1034.0	1032.4
7.5°	1030.3	1027.7	1022.9	1029.2	1026.6
10°	1023.5	1020.3	1015.6	1022.4	1019.8
12.5°	1012.9	1009.8	1005.6	1012.4	1008.7
15°	1000.3	996.6	994.0	1000.3	995.6
17.5°	985.1	981.9	978.2	984.5	979.3
20°	966.7	964.0	959.3	963.0	960.3
22.5°	945.6	941.9	937.2	941.4	937.7
25°	919.9	917.2	911.4	915.6	914.1
27.5°	890.4	888.8	882.0	887.2	884.6
30°	858.8	854.6	849.4	851.0	851.5
32.5°	822.6	817.3	813.1	809.4	805.7
35°	778.9	774.2	765.8	757.9	749.4
37.5°	733.7	727.4	718.9	701.6	691.1
40°	681.1	677.9	664.2	640.1	609.6
42.5°	627.4	624.3	612.2	558.0	524.9
45°	569.1	570.6	552.8	471.2	441.3
47.5°	513.3	517.5	478.6	402.3	386.6
50°	457.6	462.3	406.5	347.6	338.2
52.5°	408.6	405.0	346.6	305.0	300.8
55°	361.3	341.3	298.2	266.1	266.1
57.5°	312.9	284.5	253.5	233.0	233.0
60°	271.9	236.7	215.1	201.4	205.6
62.5°	234.0	196.7	178.3	175.7	180.9
65°	199.9	166.7	144.6	154.6	159.9
67.5°	172.0	142.5	118.9	139.9	143.1
70°	146.2	124.1	100.5	128.9	129.4
72.5°	122.5	109.4	86.3	116.8	118.9
75°	106.2	95.2	79.4	104.1	109.4
77.5°	93.1	81.5	73.1	89.9	99.9
80°	79.4	66.8	67.8	75.7	85.7
82.5°	61.0	51.5	53.6	62.1	69.9
85°	42.1	38.9	36.3	45.8	51.5
87.5°	22.6	21.0	18.4	25.8	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)