

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: P291251

Luminaire Tested: **14GR-LD5-24-A125-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291251
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-LD5-24-A125-UNV-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2280.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

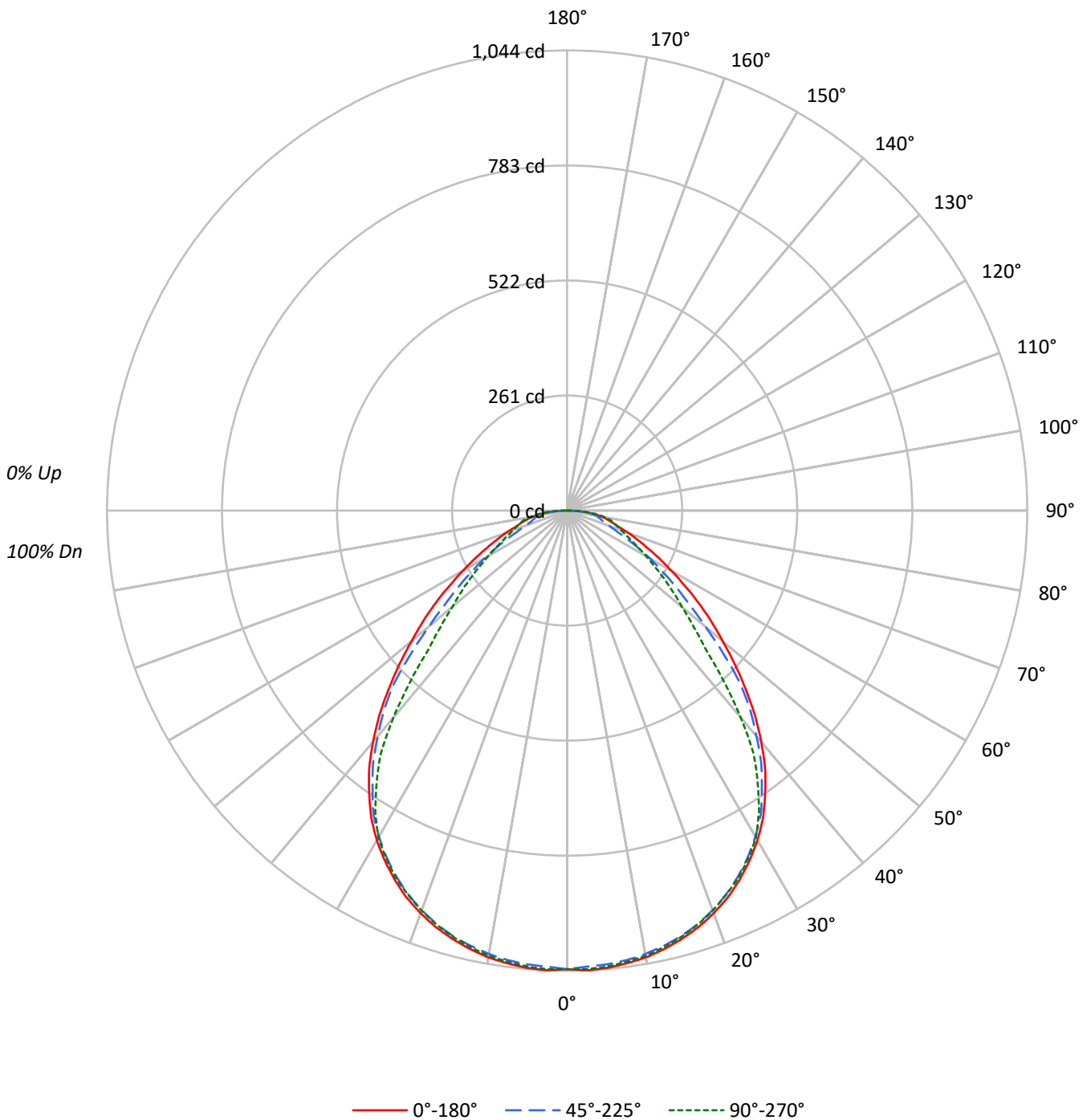
Input Watts (W): 18.972
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
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	52	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°	2800	2800	2800
5°	2813	2792	2805
10°	2813	2791	2802
15°	2803	2785	2790
20°	2784	2763	2766
25°	2747	2722	2730
30°	2684	2654	2661
35°	2574	2530	2476
40°	2406	2347	2153
45°	2178	2116	1689
50°	1927	1712	1424
55°	1705	1407	1255
60°	1472	1164	1113
65°	1280	926	1024
70°	1157	795	1024
75°	1110	831	1144
80°	1238	1057	1336
85°	1306	1127	1599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.7	4.3
10°-20°	282.8	12.4
20°-30°	423.3	18.6
30°-40°	479.1	21.0
40°-50°	408.1	17.9
50°-60°	276.3	12.1
60°-70°	165.0	7.2
70°-80°	103.1	4.5
80°-90°	43.6	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°	804.8	35.3
0°-40°	1283.9	56.3
0°-60°	1968.4	86.3
0°-90°	2280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1042	1039	1034	1040	1038	99
15°	1006	1002	1000	1006	1001	284
25°	925	922	917	921	919	425
35°	783	779	770	762	754	488
45°	572	574	556	474	444	441
55°	363	343	300	268	268	325
65°	201	168	146	156	161	203
75°	107	96	80	105	110	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°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1044.1	1041.5	1035.7	1042.6	1041.5
5°	1041.5	1038.8	1033.6	1039.9	1038.3
7.5°	1036.2	1033.6	1028.8	1035.1	1032.5
10°	1029.3	1026.2	1021.4	1028.3	1025.6
12.5°	1018.7	1015.6	1011.3	1018.2	1014.5
15°	1006.1	1002.4	999.7	1006.1	1001.3
17.5°	990.7	987.5	983.8	990.2	984.9
20°	972.2	969.6	964.8	968.5	965.9
22.5°	951.0	947.3	942.6	946.8	943.1
25°	925.1	922.5	916.7	920.9	919.3
27.5°	895.5	893.9	887.0	892.3	889.7
30°	863.8	859.5	854.2	855.8	856.4
32.5°	827.3	822.0	817.7	814.0	810.3
35°	783.4	778.6	770.1	762.2	753.7
37.5°	737.9	731.5	723.1	705.6	695.0
40°	685.0	681.8	668.1	643.7	613.0
42.5°	631.0	627.9	615.7	561.2	527.9
45°	572.3	573.9	555.9	473.9	443.8
47.5°	516.3	520.5	481.3	404.6	388.8
50°	460.2	464.9	408.9	349.6	340.1
52.5°	411.0	407.3	348.6	306.8	302.6
55°	363.4	343.3	299.9	267.6	267.6
57.5°	314.7	286.2	255.0	234.3	234.3
60°	273.5	238.0	216.3	202.6	206.8
62.5°	235.4	197.8	179.3	176.7	182.0
65°	201.0	167.7	145.5	155.5	160.8
67.5°	173.0	143.3	119.5	140.7	143.9
70°	147.0	124.8	101.0	129.6	130.1
72.5°	123.2	110.0	86.7	117.4	119.5
75°	106.8	95.7	79.9	104.7	110.0
77.5°	93.6	82.0	73.5	90.4	100.5
80°	79.9	67.2	68.2	76.2	86.2
82.5°	61.4	51.8	54.0	62.4	70.3
85°	42.3	39.1	36.5	46.0	51.8
87.5°	22.7	21.2	18.5	25.9	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)