

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: P291288

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291288
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-L92765-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: 1989.0 lumens
Efficiency: N/A
Efficacy: 110.2 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

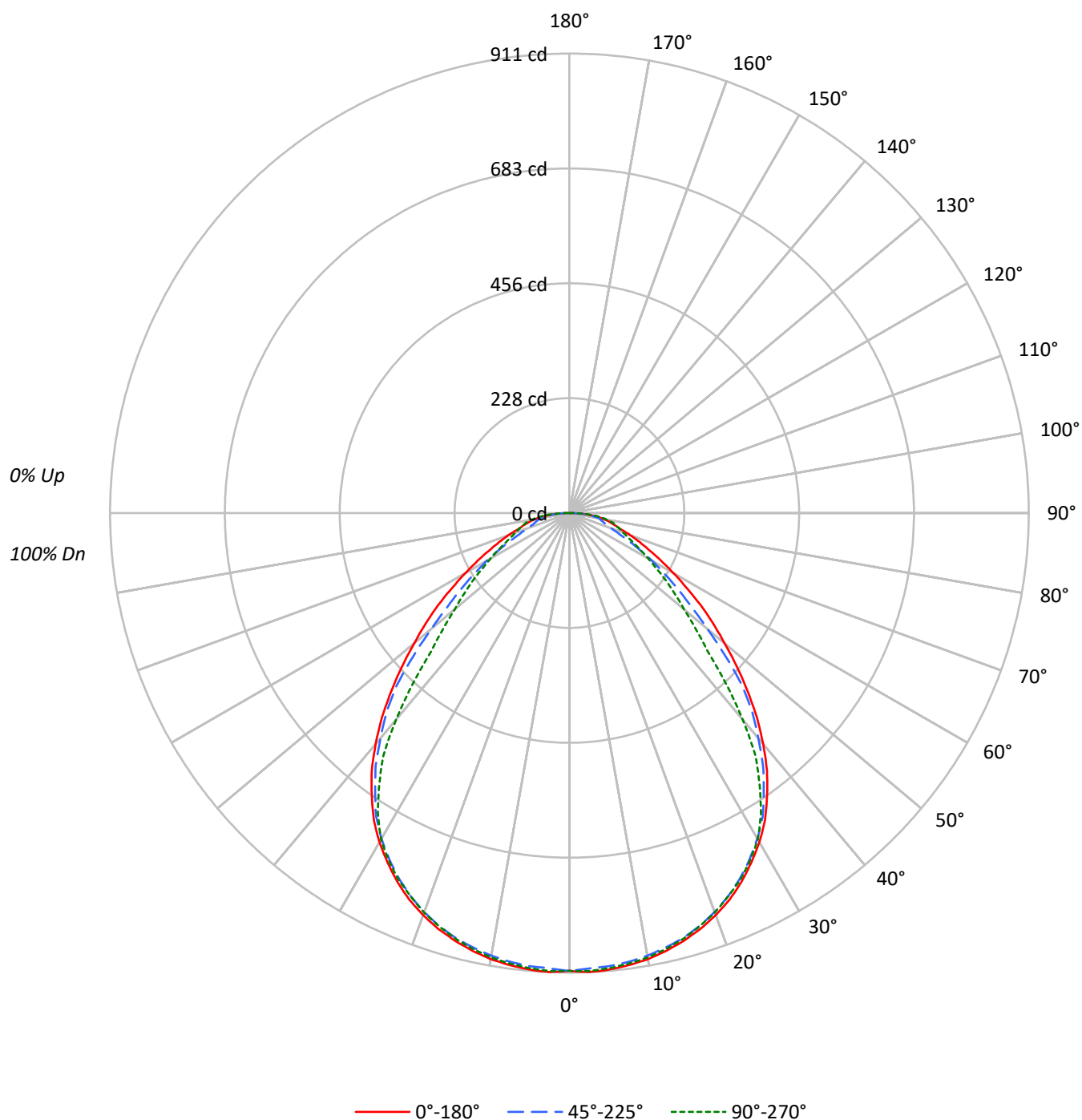
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	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°	2442	2442	2442
5°	2454	2435	2447
10°	2454	2435	2445
15°	2445	2430	2433
20°	2429	2410	2413
25°	2396	2374	2381
30°	2341	2316	2321
35°	2245	2207	2160
40°	2099	2047	1879
45°	1900	1846	1473
50°	1680	1493	1242
55°	1487	1227	1095
60°	1284	1016	971
65°	1116	808	893
70°	1009	693	893
75°	969	725	998
80°	1080	922	1165
85°	1139	982	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.1	4.3
10°-20°	246.7	12.4
20°-30°	369.2	18.6
30°-40°	418.0	21.0
40°-50°	356.0	17.9
50°-60°	241.1	12.1
60°-70°	143.9	7.2
70°-80°	89.9	4.5
80°-90°	38.0	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°	702.1	35.3
0°-40°	1120.1	56.3
0°-60°	1717.1	86.3
0°-90°	1989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	909	906	902	907	906	86
15°	878	874	872	878	874	248
25°	807	805	800	803	802	371
35°	683	679	672	665	658	426
45°	499	501	485	413	387	385
55°	317	300	262	234	234	283
65°	175	146	127	136	140	177
75°	93	84	70	91	96	101
85°	37	34	32	40	45	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.6	907.6	907.6	907.6	907.6
2.5°	910.9	908.6	903.5	909.5	908.6
5°	908.6	906.3	901.6	907.2	905.8
7.5°	904.0	901.6	897.5	903.0	900.7
10°	898.0	895.2	891.0	897.0	894.7
12.5°	888.7	886.0	882.3	888.3	885.0
15°	877.6	874.4	872.1	877.6	873.5
17.5°	864.3	861.5	858.3	863.8	859.2
20°	848.1	845.8	841.7	844.9	842.6
22.5°	829.7	826.4	822.3	826.0	822.7
25°	807.1	804.7	799.7	803.4	802.0
27.5°	781.2	779.8	773.8	778.4	776.1
30°	753.5	749.8	745.2	746.6	747.1
32.5°	721.7	717.1	713.4	710.1	706.9
35°	683.4	679.2	671.8	664.9	657.5
37.5°	643.7	638.2	630.8	615.6	606.3
40°	597.6	594.8	582.8	561.6	534.8
42.5°	550.5	547.7	537.1	489.6	460.5
45°	499.3	500.7	485.0	413.4	387.1
47.5°	450.4	454.1	419.9	353.0	339.2
50°	401.4	405.6	356.7	305.0	296.7
52.5°	358.5	355.3	304.1	267.6	263.9
55°	317.0	299.5	261.6	233.5	233.5
57.5°	274.6	249.6	222.4	204.4	204.4
60°	238.6	207.6	188.7	176.7	180.4
62.5°	205.3	172.6	156.4	154.1	158.7
65°	175.3	146.3	126.9	135.7	140.3
67.5°	150.9	125.0	104.3	122.7	125.5
70°	128.3	108.9	88.1	113.1	113.5
72.5°	107.5	96.0	75.7	102.4	104.3
75°	93.2	83.5	69.7	91.4	96.0
77.5°	81.7	71.5	64.1	78.9	87.7
80°	69.7	58.6	59.5	66.4	75.2
82.5°	53.5	45.2	47.1	54.4	61.4
85°	36.9	34.1	31.8	40.1	45.2
87.5°	19.8	18.5	16.2	22.6	23.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)