

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: P291292

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291292
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2257.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

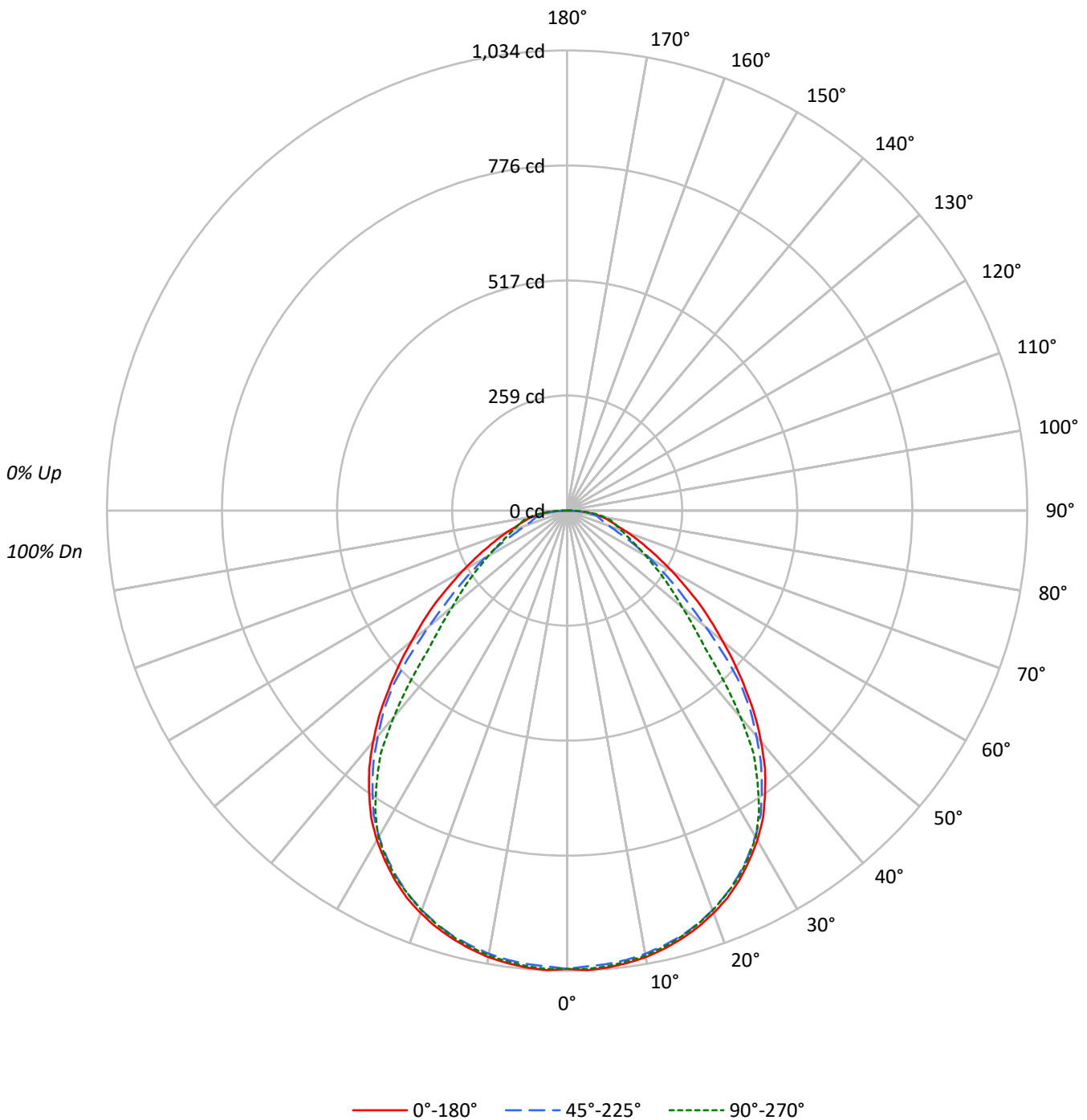
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2771	2771	2771
5°	2785	2764	2776
10°	2784	2763	2774
15°	2774	2757	2761
20°	2756	2735	2738
25°	2719	2694	2702
30°	2657	2628	2634
35°	2548	2505	2451
40°	2382	2323	2132
45°	2156	2094	1672
50°	1907	1695	1410
55°	1688	1393	1243
60°	1457	1153	1102
65°	1267	917	1014
70°	1146	787	1013
75°	1100	822	1132
80°	1226	1046	1322
85°	1294	1115	1584



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	4.3
10°-20°	280.0	12.4
20°-30°	419.0	18.6
30°-40°	474.3	21.0
40°-50°	404.0	17.9
50°-60°	273.5	12.1
60°-70°	163.3	7.2
70°-80°	102.0	4.5
80°-90°	43.1	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°	796.7	35.3
0°-40°	1271.0	56.3
0°-60°	1948.5	86.3
0°-90°	2257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1031	1028	1023	1029	1028	98
15°	996	992	990	996	991	281
25°	916	913	907	912	910	421
35°	776	771	762	754	746	483
45°	566	568	550	469	439	437
55°	360	340	297	265	265	322
65°	199	166	144	154	159	201
75°	106	95	79	104	109	114
85°	42	39	36	46	51	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.9	1029.9	1029.9	1029.9	1029.9
2.5°	1033.6	1031.0	1025.2	1032.0	1031.0
5°	1031.0	1028.4	1023.1	1029.4	1027.8
7.5°	1025.8	1023.1	1018.4	1024.7	1022.1
10°	1018.9	1015.8	1011.1	1017.9	1015.3
12.5°	1008.5	1005.3	1001.1	1007.9	1004.3
15°	995.9	992.2	989.6	995.9	991.2
17.5°	980.7	977.6	973.9	980.2	975.0
20°	962.4	959.8	955.1	958.7	956.1
22.5°	941.5	937.8	933.1	937.3	933.6
25°	915.8	913.2	907.4	911.6	910.0
27.5°	886.5	884.9	878.1	883.3	880.7
30°	855.1	850.9	845.6	847.2	847.7
32.5°	818.9	813.7	809.5	805.8	802.2
35°	775.5	770.8	762.4	754.5	746.1
37.5°	730.4	724.2	715.8	698.5	688.0
40°	678.1	674.9	661.3	637.2	606.9
42.5°	624.7	621.5	609.5	555.5	522.6
45°	566.5	568.1	550.3	469.2	439.3
47.5°	511.0	515.2	476.5	400.6	384.9
50°	455.5	460.3	404.8	346.1	336.7
52.5°	406.8	403.2	345.1	303.7	299.5
55°	359.7	339.8	296.9	264.9	264.9
57.5°	311.5	283.3	252.4	232.0	232.0
60°	270.7	235.6	214.2	200.5	204.7
62.5°	233.0	195.8	177.5	174.9	180.1
65°	199.0	166.0	144.0	153.9	159.2
67.5°	171.2	141.9	118.3	139.3	142.4
70°	145.6	123.6	100.0	128.3	128.8
72.5°	122.0	108.9	85.9	116.2	118.3
75°	105.8	94.8	79.1	103.7	108.9
77.5°	92.7	81.2	72.8	89.5	99.5
80°	79.1	66.5	67.5	75.4	85.3
82.5°	60.7	51.3	53.4	61.8	69.6
85°	41.9	38.7	36.1	45.6	51.3
87.5°	22.5	20.9	18.3	25.7	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)