

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: P290996

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2435.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

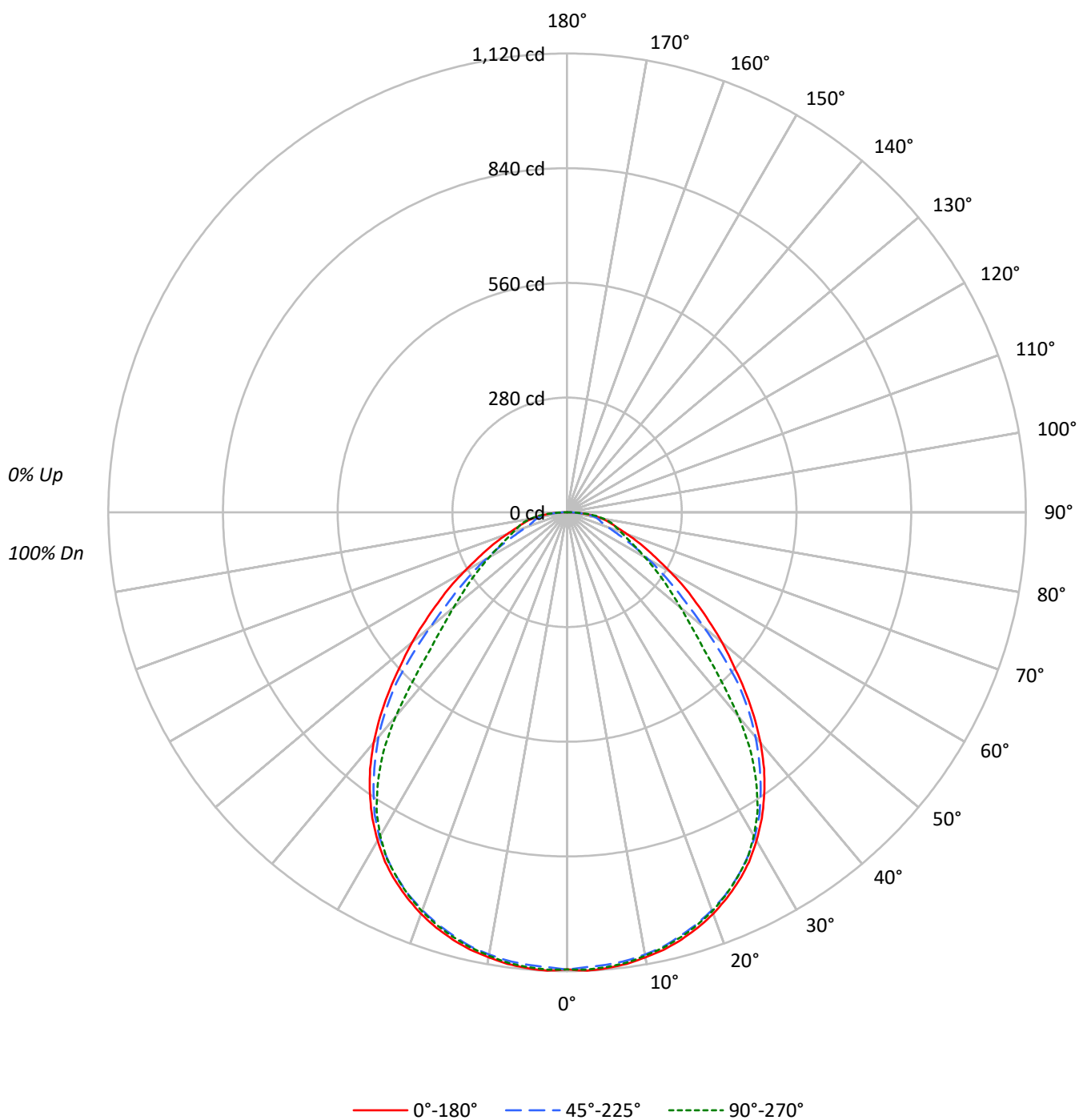
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3003	3003	3003
5°	3017	2994	3009
10°	3013	2995	3003
15°	3008	2981	2990
20°	2987	2959	2967
25°	2947	2918	2920
30°	2875	2845	2833
35°	2757	2707	2645
40°	2581	2515	2289
45°	2331	2243	1789
50°	2067	1821	1513
55°	1804	1494	1335
60°	1565	1230	1178
65°	1372	987	1088
70°	1223	836	1094
75°	1194	882	1223
80°	1323	1113	1402
85°	1380	1189	1643



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	4.3
10°-20°	303.3	12.5
20°-30°	453.7	18.6
30°-40°	512.1	21.0
40°-50°	434.5	17.8
50°-60°	294.0	12.1
60°-70°	175.5	7.2
70°-80°	109.9	4.5
80°-90°	46.2	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°	862.8	35.4
0°-40°	1375.0	56.5
0°-60°	2103.4	86.4
0°-90°	2435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1117	1114	1108	1116	1114	106
15°	1080	1077	1070	1077	1073	304
25°	992	989	983	987	984	456
35°	839	834	824	817	805	523
45°	612	615	589	505	470	472
55°	385	366	318	285	284	346
65°	216	179	155	165	171	215
75°	115	102	85	112	118	123
85°	45	42	38	50	53	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1119.8	1116.4	1111.3	1118.1	1117.5
5°	1117.0	1113.6	1108.5	1116.4	1114.1
7.5°	1111.9	1109.0	1103.9	1111.3	1109.0
10°	1102.8	1100.6	1096.0	1102.3	1098.9
12.5°	1093.2	1091.5	1085.9	1091.5	1088.1
15°	1079.6	1077.4	1070.0	1077.4	1073.4
17.5°	1062.7	1059.8	1053.6	1059.8	1056.4
20°	1042.9	1039.5	1033.3	1039.5	1036.1
22.5°	1019.1	1016.3	1010.6	1016.3	1011.8
25°	992.5	989.1	982.9	987.4	983.5
27.5°	962.0	957.5	951.8	955.2	952.9
30°	925.2	919.6	915.6	915.6	911.7
32.5°	885.1	881.1	874.3	870.4	865.3
35°	839.3	833.6	824.0	816.7	805.3
37.5°	790.1	783.3	771.4	752.7	737.5
40°	734.6	726.2	716.0	679.2	651.5
42.5°	675.3	673.6	656.0	593.3	554.8
45°	612.5	614.7	589.3	505.0	470.0
47.5°	549.1	557.1	510.7	428.1	410.0
50°	493.7	496.6	434.9	371.6	361.4
52.5°	436.6	432.1	371.0	326.9	319.5
55°	384.6	366.5	318.4	285.0	284.5
57.5°	338.8	305.4	272.0	247.1	250.0
60°	290.7	253.4	228.5	214.9	218.9
62.5°	248.3	212.6	190.6	186.6	193.4
65°	215.5	178.7	155.0	165.1	170.8
67.5°	184.4	153.3	126.1	150.4	152.7
70°	155.5	132.9	106.3	138.6	139.1
72.5°	131.8	117.6	92.2	125.6	127.2
75°	114.8	102.4	84.8	112.0	117.6
77.5°	100.7	87.7	78.6	96.7	106.3
80°	85.4	70.7	71.8	80.9	90.5
82.5°	65.6	54.9	57.1	66.7	73.5
85°	44.7	42.4	38.5	49.8	53.2
87.5°	23.8	22.6	19.8	28.3	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)