

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: P290993

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290993
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2238.0 lumens
Efficiency: N/A
Efficacy: 122.8 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

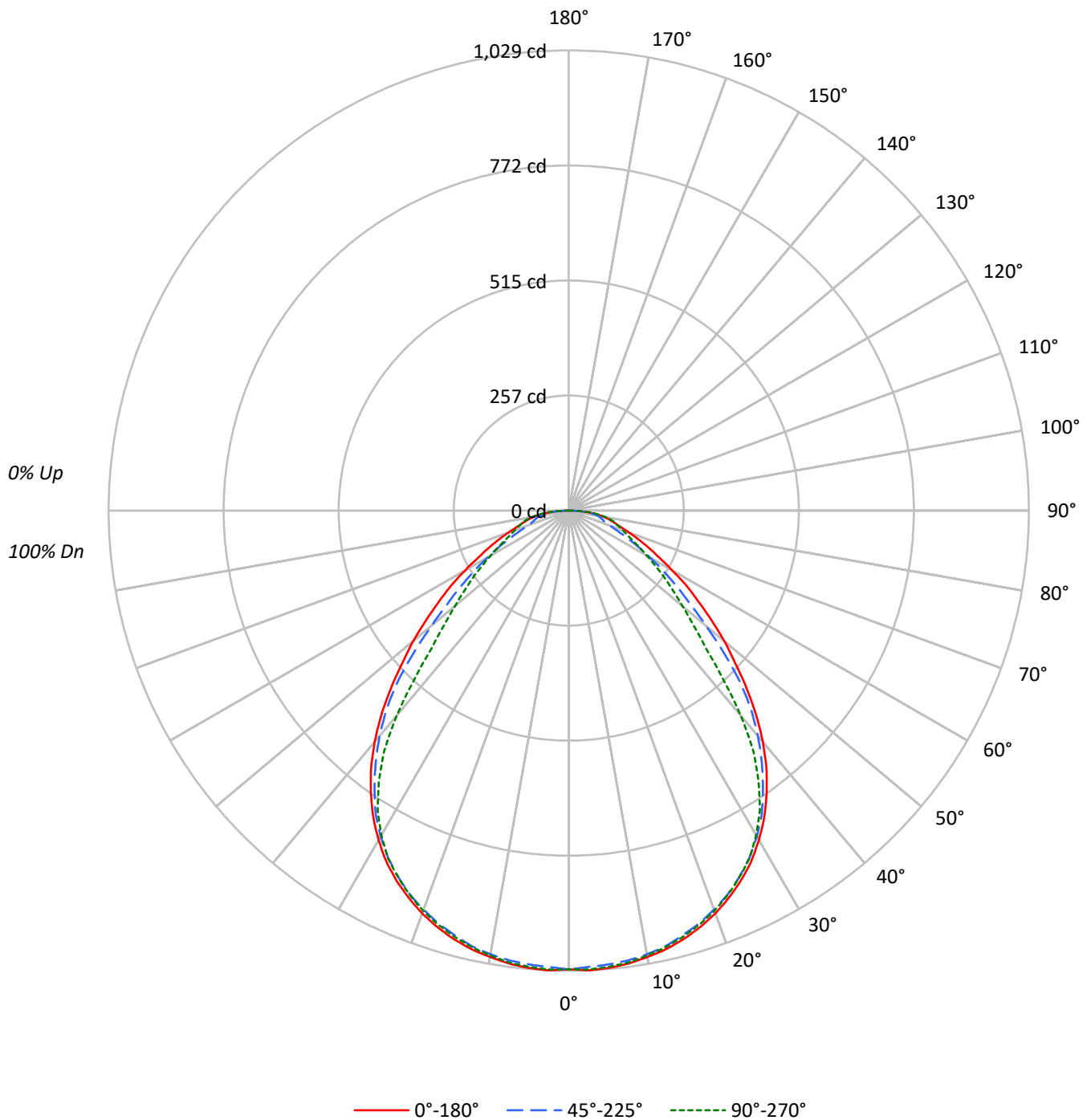
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100							
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86							
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74							
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64							
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40							
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36							
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33							
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2773	2752	2766
10°	2770	2753	2760
15°	2764	2740	2749
20°	2745	2720	2727
25°	2708	2682	2684
30°	2642	2615	2604
35°	2534	2488	2432
40°	2372	2312	2103
45°	2142	2061	1644
50°	1900	1673	1390
55°	1658	1373	1227
60°	1438	1130	1083
65°	1261	907	1000
70°	1124	769	1006
75°	1097	811	1124
80°	1216	1023	1289
85°	1269	1090	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	4.3
10°-20°	278.7	12.5
20°-30°	417.0	18.6
30°-40°	470.7	21.0
40°-50°	399.3	17.8
50°-60°	270.2	12.1
60°-70°	161.3	7.2
70°-80°	101.0	4.5
80°-90°	42.5	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°	793.0	35.4
0°-40°	1263.7	56.5
0°-60°	1933.2	86.4
0°-90°	2238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1027	1024	1019	1026	1024	98
15°	992	990	983	990	987	280
25°	912	909	903	908	904	419
35°	771	766	757	751	740	481
45°	563	565	542	464	432	434
55°	354	337	293	262	262	318
65°	198	164	142	152	157	198
75°	106	94	78	103	108	113
85°	41	39	35	46	49	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.6	1025.6	1025.6	1025.6	1025.6
2.5°	1029.2	1026.1	1021.4	1027.6	1027.1
5°	1026.6	1023.5	1018.8	1026.1	1024.0
7.5°	1021.9	1019.3	1014.6	1021.4	1019.3
10°	1013.6	1011.5	1007.4	1013.1	1010.0
12.5°	1004.8	1003.2	998.0	1003.2	1000.1
15°	992.3	990.2	983.4	990.2	986.6
17.5°	976.7	974.1	968.4	974.1	971.0
20°	958.5	955.4	949.7	955.4	952.3
22.5°	936.7	934.1	928.9	934.1	929.9
25°	912.2	909.1	903.4	907.6	903.9
27.5°	884.2	880.0	874.8	877.9	875.9
30°	850.4	845.2	841.5	841.5	837.9
32.5°	813.5	809.8	803.6	800.0	795.3
35°	771.4	766.2	757.3	750.6	740.2
37.5°	726.2	719.9	709.0	691.8	677.8
40°	675.2	667.4	658.1	624.3	598.8
42.5°	620.6	619.1	603.0	545.3	509.9
45°	562.9	565.0	541.6	464.2	431.9
47.5°	504.7	512.0	469.4	393.5	376.8
50°	453.8	456.4	399.7	341.5	332.1
52.5°	401.3	397.1	341.0	300.4	293.7
55°	353.5	336.8	292.6	262.0	261.5
57.5°	311.4	280.7	250.0	227.1	229.7
60°	267.2	232.9	210.0	197.5	201.2
62.5°	228.2	195.4	175.2	171.5	177.8
65°	198.0	164.3	142.4	151.8	157.0
67.5°	169.5	140.9	115.9	138.3	140.3
70°	142.9	122.2	97.7	127.3	127.9
72.5°	121.1	108.1	84.7	115.4	117.0
75°	105.5	94.1	78.0	102.9	108.1
77.5°	92.5	80.6	72.3	88.9	97.7
80°	78.5	65.0	66.0	74.3	83.2
82.5°	60.3	50.4	52.5	61.3	67.6
85°	41.1	39.0	35.3	45.7	48.9
87.5°	21.8	20.8	18.2	26.0	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)