

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: P290999

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290999
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2536.0 lumens
Efficiency: N/A
Efficacy: 135.0 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

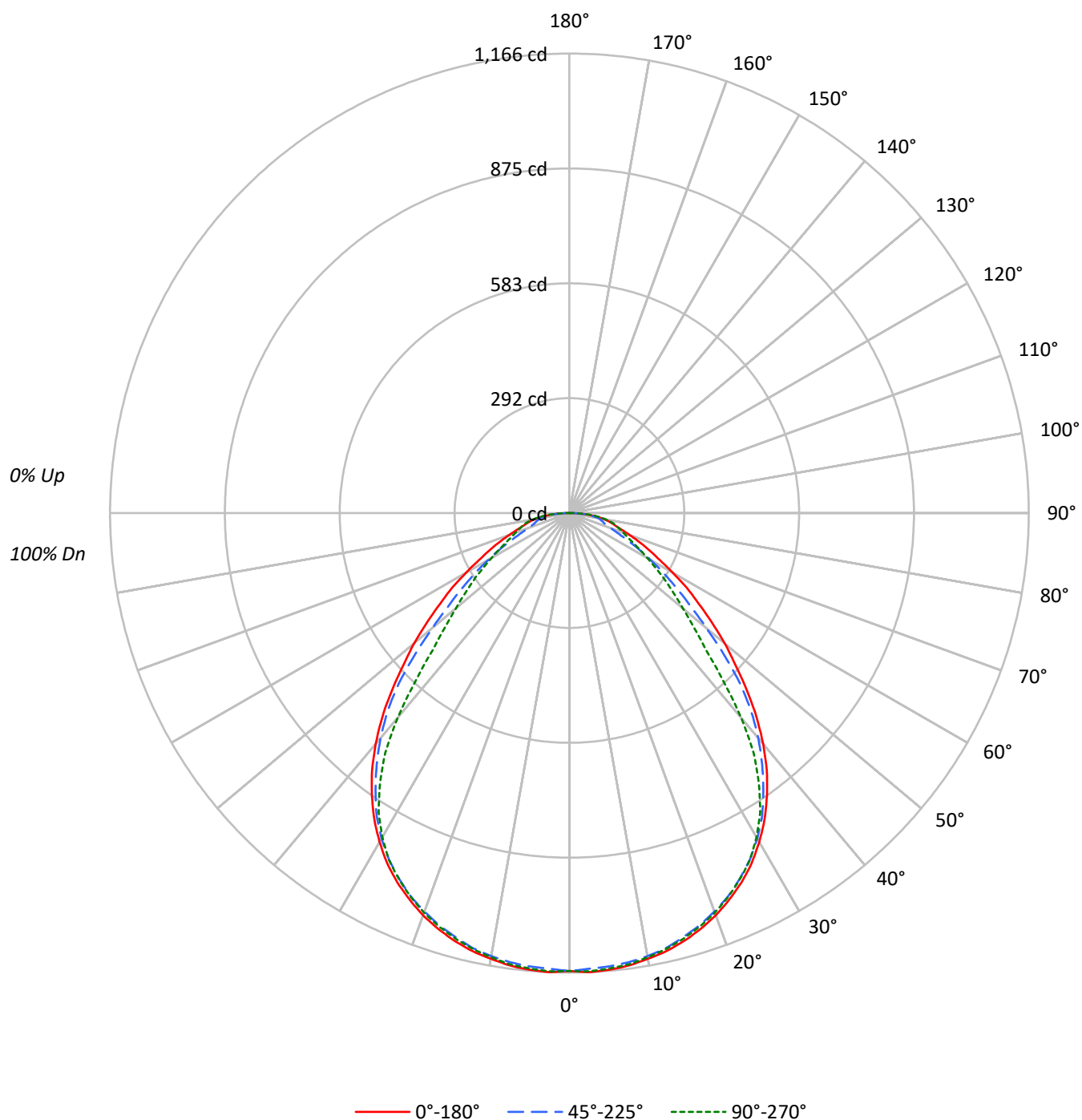
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290999

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot



TEST NUMBER: P290999

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-5500K

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	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°	3127	3127	3127
5°	3142	3119	3134
10°	3139	3119	3127
15°	3132	3105	3114
20°	3110	3082	3090
25°	3069	3040	3041
30°	2994	2963	2950
35°	2871	2819	2755
40°	2688	2620	2383
45°	2428	2336	1863
50°	2153	1896	1576
55°	1879	1556	1390
60°	1629	1281	1227
65°	1429	1028	1133
70°	1275	871	1140
75°	1243	919	1274
80°	1378	1159	1460
85°	1436	1238	1711



TEST NUMBER: P290999

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	4.3
10°-20°	315.9	12.5
20°-30°	472.5	18.6
30°-40°	533.4	21.0
40°-50°	452.5	17.8
50°-60°	306.2	12.1
60°-70°	182.7	7.2
70°-80°	114.4	4.5
80°-90°	48.1	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°	898.6	35.4
0°-40°	1432.0	56.5
0°-60°	2190.7	86.4
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1162	1162	1162	1162	1162	
5°	1163	1160	1154	1163	1160	111
15°	1124	1122	1114	1122	1118	317
25°	1034	1030	1024	1028	1024	475
35°	874	868	858	850	839	545
45°	638	640	614	526	490	492
55°	400	382	332	297	296	361
65°	224	186	161	172	178	224
75°	120	107	88	117	122	129
85°	46	44	40	52	55	50
90°	0	0	0	0	0	



TEST NUMBER: P290999

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1166.2	1162.7	1157.4	1164.5	1163.9
5°	1163.3	1159.8	1154.5	1162.7	1160.3
7.5°	1158.0	1155.0	1149.7	1157.4	1155.0
10°	1148.6	1146.2	1141.5	1148.0	1144.4
12.5°	1138.5	1136.8	1130.9	1136.8	1133.2
15°	1124.4	1122.1	1114.4	1122.1	1117.9
17.5°	1106.7	1103.8	1097.3	1103.8	1100.3
20°	1086.1	1082.6	1076.1	1082.6	1079.1
22.5°	1061.4	1058.4	1052.6	1058.4	1053.7
25°	1033.7	1030.2	1023.7	1028.4	1024.3
27.5°	1001.9	997.2	991.3	994.8	992.5
30°	963.6	957.7	953.6	953.6	949.5
32.5°	921.8	917.7	910.6	906.5	901.2
35°	874.1	868.2	858.2	850.5	838.7
37.5°	822.8	815.8	803.4	784.0	768.1
40°	765.1	756.3	745.7	707.4	678.5
42.5°	703.3	701.5	683.2	617.9	577.8
45°	637.9	640.2	613.7	526.0	489.5
47.5°	571.9	580.2	531.9	445.9	427.0
50°	514.2	517.1	452.9	387.0	376.4
52.5°	454.7	450.0	386.4	340.4	332.8
55°	400.5	381.7	331.6	296.9	296.3
57.5°	352.8	318.1	283.3	257.4	260.3
60°	302.7	263.9	238.0	223.8	227.9
62.5°	258.6	221.5	198.5	194.4	201.4
65°	224.4	186.1	161.4	172.0	177.9
67.5°	192.0	159.6	131.3	156.7	159.0
70°	162.0	138.4	110.7	144.3	144.9
72.5°	137.2	122.5	96.0	130.8	132.5
75°	119.6	106.6	88.4	116.6	122.5
77.5°	104.8	91.3	81.9	100.7	110.7
80°	88.9	73.6	74.8	84.2	94.2
82.5°	68.3	57.1	59.5	69.5	76.6
85°	46.5	44.2	40.1	51.8	55.4
87.5°	24.7	23.6	20.6	29.5	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)