

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: P290994

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290994
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

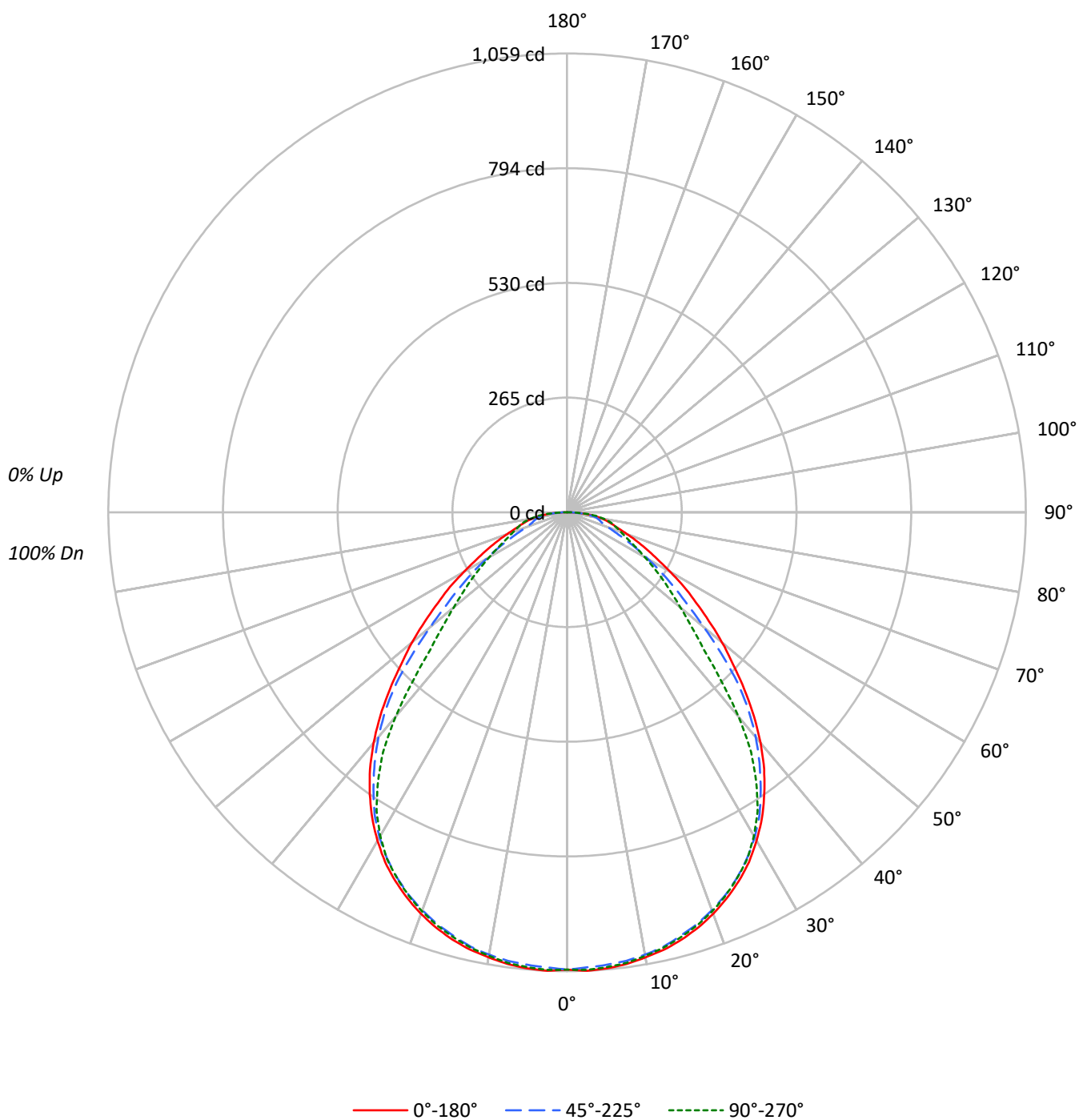
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2840	2840	2840
5°	2854	2832	2846
10°	2850	2833	2840
15°	2845	2819	2828
20°	2824	2798	2806
25°	2787	2760	2762
30°	2719	2691	2679
35°	2608	2560	2502
40°	2441	2379	2165
45°	2205	2121	1692
50°	1955	1722	1431
55°	1706	1413	1262
60°	1480	1163	1114
65°	1298	933	1028
70°	1157	792	1035
75°	1129	834	1157
80°	1252	1052	1327
85°	1306	1124	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.1	4.3
10°-20°	286.8	12.5
20°-30°	429.1	18.6
30°-40°	484.4	21.0
40°-50°	410.9	17.8
50°-60°	278.0	12.1
60°-70°	166.0	7.2
70°-80°	103.9	4.5
80°-90°	43.7	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°	816.1	35.4
0°-40°	1300.4	56.5
0°-60°	1989.4	86.4
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1056	1053	1048	1056	1054	100
15°	1021	1019	1012	1019	1015	288
25°	939	936	930	934	930	432
35°	794	788	779	772	762	495
45°	579	581	557	478	444	446
55°	364	347	301	270	269	328
65°	204	169	147	156	162	204
75°	109	97	80	106	111	117
85°	42	40	36	47	50	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.3	1055.3	1055.3	1055.3	1055.3
2.5°	1059.1	1055.9	1051.1	1057.5	1056.9
5°	1056.4	1053.2	1048.4	1055.9	1053.7
7.5°	1051.6	1048.9	1044.1	1051.1	1048.9
10°	1043.0	1040.9	1036.6	1042.5	1039.3
12.5°	1033.9	1032.3	1027.0	1032.3	1029.1
15°	1021.1	1019.0	1012.0	1019.0	1015.2
17.5°	1005.1	1002.4	996.5	1002.4	999.2
20°	986.3	983.1	977.2	983.1	979.9
22.5°	963.9	961.2	955.8	961.2	956.9
25°	938.7	935.5	929.6	933.9	930.2
27.5°	909.8	905.6	900.2	903.4	901.3
30°	875.1	869.7	866.0	866.0	862.2
32.5°	837.1	833.4	826.9	823.2	818.4
35°	793.8	788.4	779.3	772.4	761.7
37.5°	747.2	740.8	729.6	711.9	697.5
40°	694.8	686.8	677.2	642.4	616.2
42.5°	638.7	637.1	620.5	561.1	524.7
45°	579.3	581.4	557.4	477.7	444.5
47.5°	519.4	526.9	483.0	404.9	387.8
50°	467.0	469.6	411.3	351.4	341.8
52.5°	412.9	408.7	350.9	309.2	302.2
55°	363.7	346.6	301.1	269.6	269.0
57.5°	320.4	288.8	257.3	233.7	236.4
60°	274.9	239.6	216.1	203.3	207.0
62.5°	234.8	201.1	180.3	176.5	182.9
65°	203.8	169.0	146.6	156.2	161.5
67.5°	174.4	145.0	119.3	142.3	144.4
70°	147.1	125.7	100.6	131.0	131.6
72.5°	124.6	111.3	87.2	118.7	120.4
75°	108.6	96.8	80.2	105.9	111.3
77.5°	95.2	82.9	74.3	91.5	100.6
80°	80.8	66.9	67.9	76.5	85.6
82.5°	62.0	51.9	54.0	63.1	69.5
85°	42.3	40.1	36.4	47.1	50.3
87.5°	22.5	21.4	18.7	26.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)