

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: P291098

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291098
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2299.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

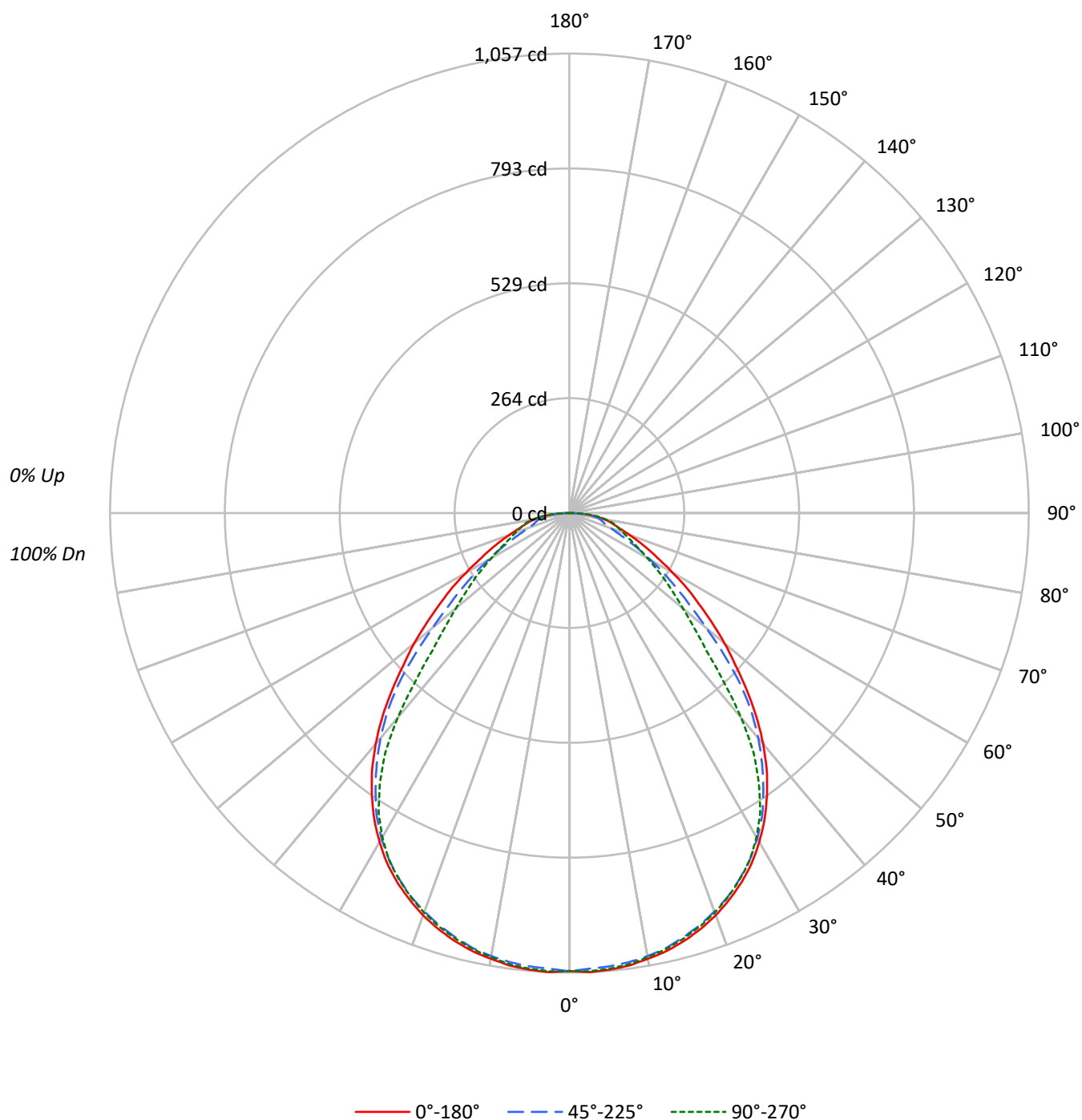
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2835	2835	2835
5°	2849	2827	2841
10°	2845	2828	2835
15°	2840	2815	2824
20°	2820	2794	2801
25°	2782	2755	2757
30°	2715	2686	2674
35°	2603	2556	2498
40°	2436	2375	2161
45°	2201	2117	1689
50°	1951	1719	1428
55°	1704	1410	1260
60°	1477	1161	1112
65°	1295	932	1027
70°	1155	790	1034
75°	1127	833	1155
80°	1249	1051	1323
85°	1303	1121	1550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	4.3
10°-20°	286.3	12.5
20°-30°	428.3	18.6
30°-40°	483.5	21.0
40°-50°	410.2	17.8
50°-60°	277.5	12.1
60°-70°	165.7	7.2
70°-80°	103.7	4.5
80°-90°	43.6	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°	814.6	35.4
0°-40°	1298.2	56.5
0°-60°	1985.9	86.4
0°-90°	2299.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2299.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1055	1051	1047	1054	1052	100
15°	1019	1017	1010	1017	1014	287
25°	937	934	928	932	929	431
35°	792	787	778	771	760	494
45°	578	580	556	477	444	446
55°	363	346	301	269	269	327
65°	203	169	146	156	161	203
75°	108	97	80	106	111	117
85°	42	40	36	47	50	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.5	1053.5	1053.5	1053.5	1053.5
2.5°	1057.2	1054.0	1049.2	1055.6	1055.1
5°	1054.6	1051.4	1046.6	1054.0	1051.9
7.5°	1049.8	1047.1	1042.3	1049.2	1047.1
10°	1041.2	1039.1	1034.8	1040.7	1037.5
12.5°	1032.1	1030.5	1025.2	1030.5	1027.3
15°	1019.3	1017.2	1010.3	1017.2	1013.5
17.5°	1003.3	1000.6	994.8	1000.6	997.4
20°	984.6	981.4	975.5	981.4	978.2
22.5°	962.2	959.5	954.2	959.5	955.3
25°	937.1	933.9	928.0	932.3	928.6
27.5°	908.3	904.0	898.7	901.9	899.7
30°	873.6	868.2	864.5	864.5	860.7
32.5°	835.6	831.9	825.5	821.8	817.0
35°	792.4	787.1	778.0	771.0	760.4
37.5°	745.9	739.5	728.3	710.7	696.3
40°	693.6	685.6	676.0	641.3	615.1
42.5°	637.5	635.9	619.4	560.1	523.8
45°	578.3	580.4	556.4	476.8	443.7
47.5°	518.5	526.0	482.2	404.2	387.1
50°	466.1	468.8	410.6	350.8	341.2
52.5°	412.2	407.9	350.3	308.6	301.7
55°	363.1	346.0	300.6	269.1	268.6
57.5°	319.8	288.3	256.8	233.3	236.0
60°	274.5	239.2	215.7	202.9	206.6
62.5°	234.4	200.8	179.9	176.2	182.6
65°	203.4	168.7	146.3	155.9	161.3
67.5°	174.1	144.7	119.1	142.0	144.2
70°	146.8	125.5	100.4	130.8	131.4
72.5°	124.4	111.1	87.0	118.5	120.1
75°	108.4	96.6	80.1	105.7	111.1
77.5°	95.0	82.8	74.2	91.3	100.4
80°	80.6	66.7	67.8	76.4	85.4
82.5°	61.9	51.8	53.9	63.0	69.4
85°	42.2	40.0	36.3	47.0	50.2
87.5°	22.4	21.4	18.7	26.7	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)