

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: P291091

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291091
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.0 lumens
Efficiency: N/A
Efficacy: 104.8 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

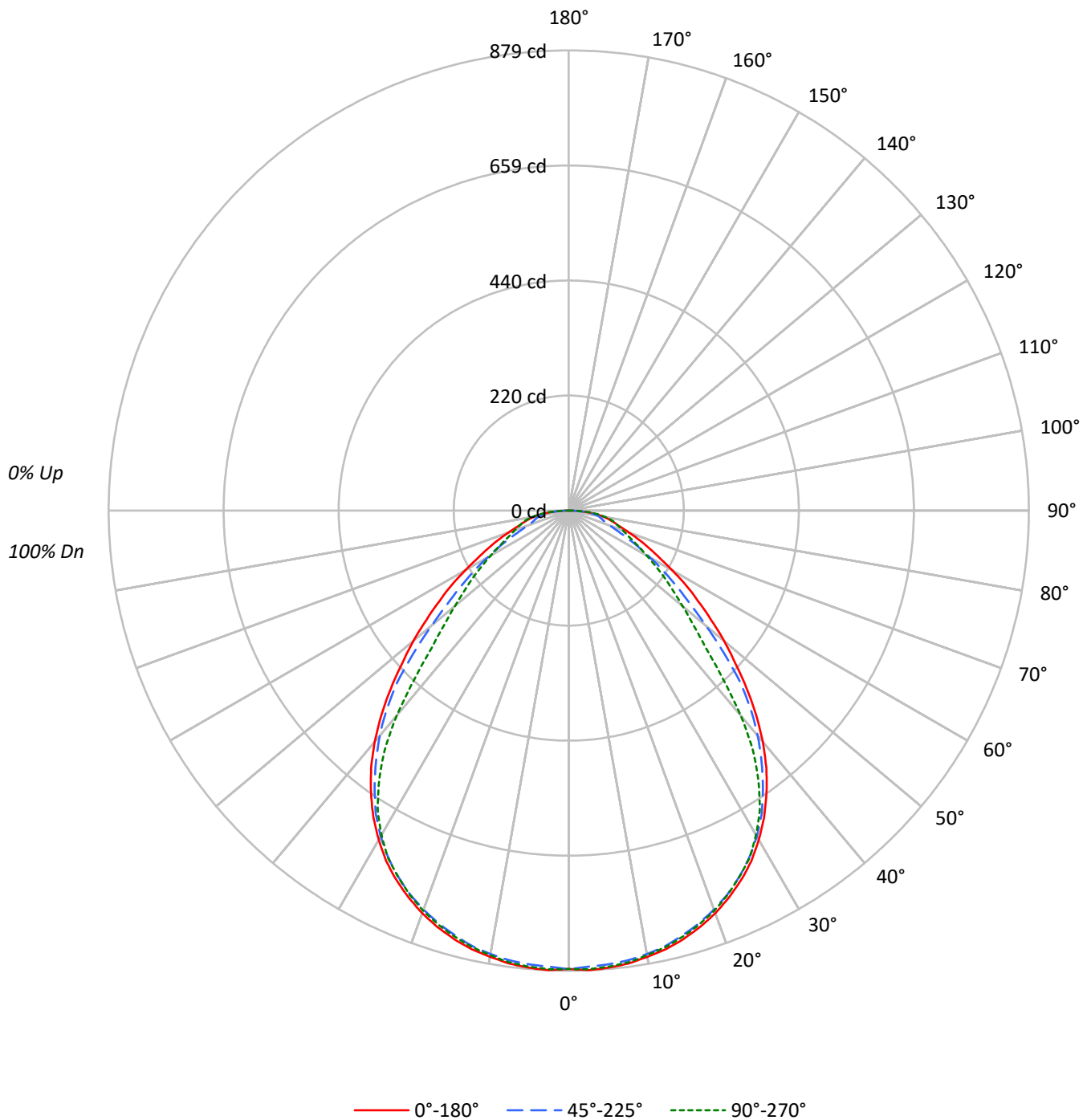
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		86
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		64
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		56
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		50
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		44
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		36
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		33
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2356	2356	2356
5°	2368	2350	2362
10°	2365	2350	2357
15°	2360	2340	2347
20°	2344	2322	2328
25°	2313	2290	2292
30°	2256	2233	2223
35°	2164	2124	2076
40°	2025	1974	1796
45°	1829	1760	1404
50°	1622	1429	1187
55°	1416	1172	1048
60°	1228	965	925
65°	1077	774	853
70°	961	656	859
75°	937	692	960
80°	1038	874	1100
85°	1084	932	1288



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	4.3
10°-20°	238.0	12.5
20°-30°	356.1	18.6
30°-40°	401.9	21.0
40°-50°	341.0	17.8
50°-60°	230.7	12.1
60°-70°	137.7	7.2
70°-80°	86.2	4.5
80°-90°	36.3	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°	677.2	35.4
0°-40°	1079.1	56.5
0°-60°	1650.8	86.4
0°-90°	1911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	877	874	870	876	874	83
15°	847	846	840	846	842	239
25°	779	776	771	775	772	358
35°	659	654	647	641	632	410
45°	481	482	462	396	369	370
55°	302	288	250	224	223	272
65°	169	140	122	130	134	169
75°	90	80	67	88	92	97
85°	35	33	30	39	42	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.7	875.7	875.7	875.7	875.7
2.5°	878.8	876.1	872.2	877.5	877.0
5°	876.6	873.9	869.9	876.1	874.4
7.5°	872.6	870.4	866.4	872.2	870.4
10°	865.5	863.7	860.2	865.1	862.4
12.5°	858.0	856.6	852.2	856.6	854.0
15°	847.3	845.5	839.8	845.5	842.4
17.5°	834.0	831.8	826.9	831.8	829.1
20°	818.4	815.8	810.9	815.8	813.1
22.5°	799.8	797.6	793.1	797.6	794.0
25°	778.9	776.3	771.4	775.0	771.8
27.5°	755.0	751.4	747.0	749.7	747.9
30°	726.1	721.7	718.6	718.6	715.5
32.5°	694.6	691.5	686.2	683.1	679.1
35°	658.7	654.2	646.7	640.9	632.0
37.5°	620.1	614.7	605.4	590.8	578.8
40°	576.6	569.9	561.9	533.1	511.3
42.5°	530.0	528.6	514.9	465.6	435.4
45°	480.7	482.5	462.5	396.4	368.8
47.5°	431.0	437.2	400.8	336.0	321.8
50°	387.5	389.7	341.3	291.6	283.6
52.5°	342.6	339.1	291.2	256.5	250.8
55°	301.8	287.6	249.9	223.7	223.3
57.5°	265.9	239.7	213.5	194.0	196.2
60°	228.1	198.8	179.3	168.7	171.8
62.5°	194.8	166.9	149.6	146.5	151.8
65°	169.1	140.3	121.6	129.6	134.0
67.5°	144.7	120.3	99.0	118.1	119.8
70°	122.1	104.3	83.4	108.7	109.2
72.5°	103.4	92.3	72.3	98.5	99.9
75°	90.1	80.3	66.6	87.9	92.3
77.5°	79.0	68.8	61.7	75.9	83.4
80°	67.0	55.5	56.4	63.5	71.0
82.5°	51.5	43.1	44.8	52.4	57.7
85°	35.1	33.3	30.2	39.1	41.7
87.5°	18.6	17.8	15.5	22.2	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)