

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: P291092

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291092
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 110.1 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

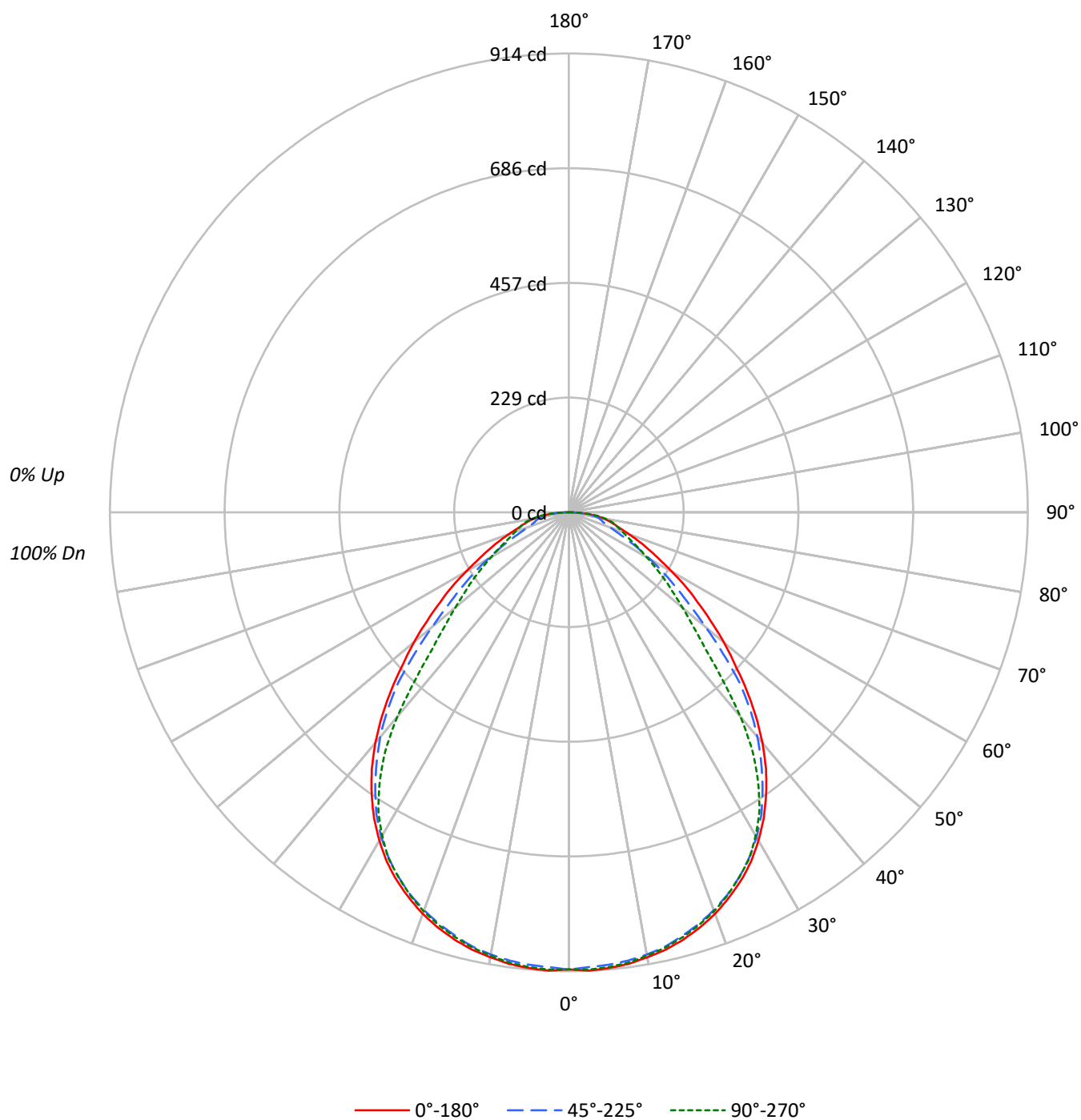
Input Watts (W): 18.042
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2450	2450	2450
5°	2462	2443	2456
10°	2459	2444	2450
15°	2454	2433	2440
20°	2437	2415	2421
25°	2405	2382	2383
30°	2346	2322	2312
35°	2250	2209	2159
40°	2106	2053	1867
45°	1902	1830	1459
50°	1687	1486	1235
55°	1472	1219	1089
60°	1277	1003	961
65°	1119	805	888
70°	998	683	893
75°	974	719	998
80°	1080	908	1144
85°	1127	969	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	4.3
10°-20°	247.5	12.5
20°-30°	370.2	18.6
30°-40°	417.9	21.0
40°-50°	354.5	17.8
50°-60°	239.9	12.1
60°-70°	143.2	7.2
70°-80°	89.7	4.5
80°-90°	37.7	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°	704.1	35.4
0°-40°	1122.0	56.5
0°-60°	1716.4	86.4
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	912	909	904	911	909	87
15°	881	879	873	879	876	248
25°	810	807	802	806	802	372
35°	685	680	672	666	657	427
45°	500	502	481	412	384	385
55°	314	299	260	233	232	283
65°	176	146	126	135	139	176
75°	94	84	69	91	96	101
85°	36	35	31	41	43	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.5	910.5	910.5	910.5	910.5
2.5°	913.8	911.0	906.8	912.4	911.9
5°	911.5	908.7	904.5	911.0	909.1
7.5°	907.3	905.0	900.8	906.8	905.0
10°	899.9	898.1	894.4	899.5	896.7
12.5°	892.1	890.7	886.1	890.7	887.9
15°	881.0	879.1	873.2	879.1	875.9
17.5°	867.2	864.8	859.8	864.8	862.1
20°	851.0	848.2	843.2	848.2	845.5
22.5°	831.6	829.3	824.7	829.3	825.6
25°	809.9	807.2	802.1	805.8	802.5
27.5°	785.0	781.3	776.7	779.5	777.6
30°	755.0	750.4	747.2	747.2	743.9
32.5°	722.2	719.0	713.5	710.2	706.1
35°	684.9	680.2	672.4	666.4	657.2
37.5°	644.7	639.2	629.5	614.3	601.8
40°	599.5	592.6	584.3	554.3	531.6
42.5°	551.0	549.6	535.3	484.1	452.7
45°	499.8	501.6	480.9	412.1	383.5
47.5°	448.1	454.6	416.7	349.4	334.6
50°	402.9	405.2	354.9	303.2	294.9
52.5°	356.3	352.6	302.7	266.7	260.7
55°	313.8	299.0	259.8	232.6	232.1
57.5°	276.4	249.2	222.0	201.7	204.0
60°	237.2	206.8	186.4	175.4	178.6
62.5°	202.6	173.5	155.5	152.3	157.8
65°	175.8	145.8	126.4	134.8	139.4
67.5°	150.4	125.1	102.9	122.8	124.6
70°	126.9	108.5	86.8	113.1	113.5
72.5°	107.5	96.0	75.2	102.5	103.8
75°	93.7	83.5	69.2	91.4	96.0
77.5°	82.1	71.5	64.1	78.9	86.8
80°	69.7	57.7	58.6	66.0	73.8
82.5°	53.5	44.8	46.6	54.5	60.0
85°	36.5	34.6	31.4	40.6	43.4
87.5°	19.4	18.5	16.2	23.1	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)