

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: P291096

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291096
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2255.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

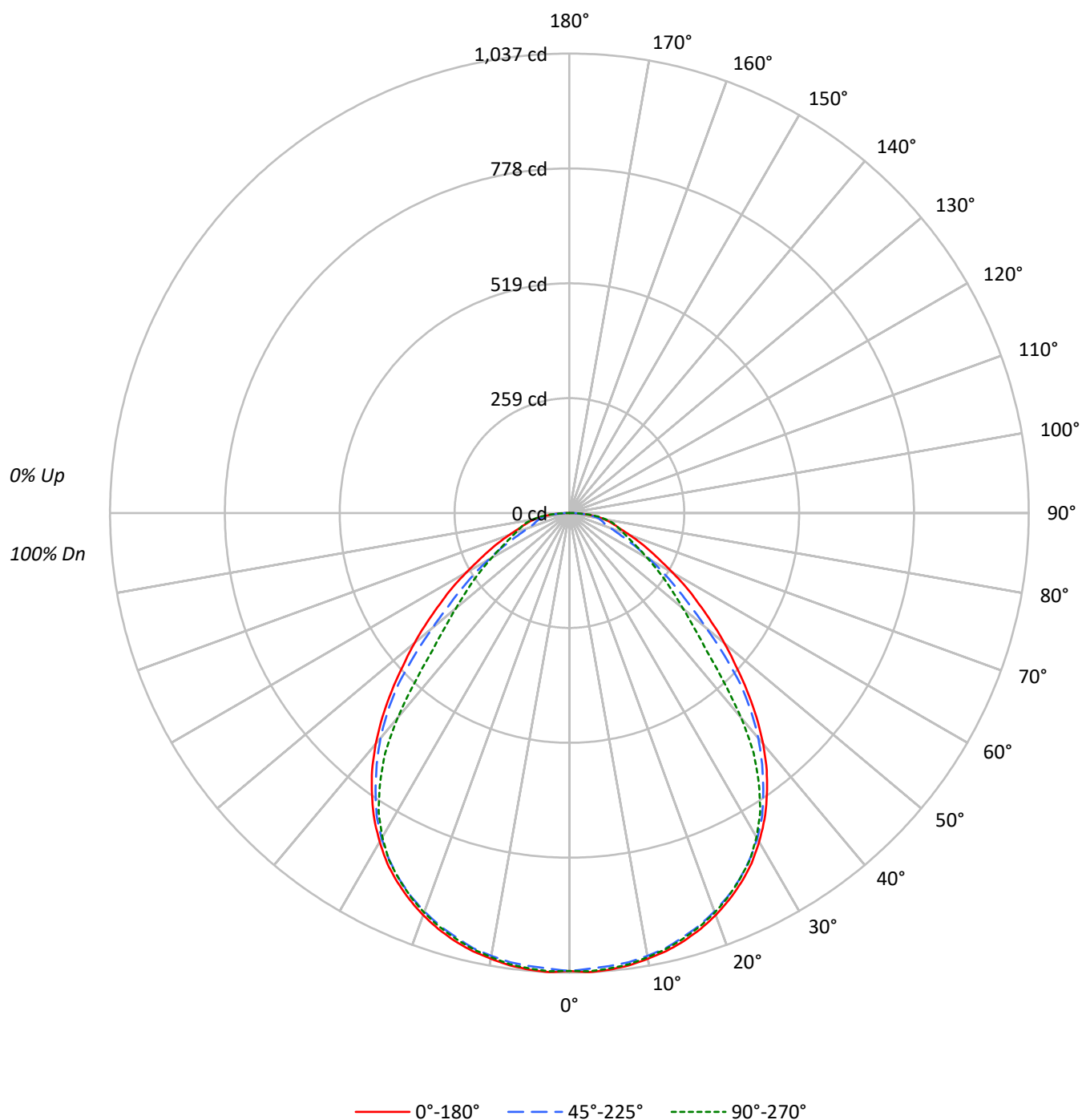
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10
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°	2781	2781	2781
5°	2794	2773	2787
10°	2791	2773	2781
15°	2785	2761	2769
20°	2766	2740	2748
25°	2729	2703	2704
30°	2662	2635	2623
35°	2553	2507	2450
40°	2390	2329	2119
45°	2159	2077	1656
50°	1914	1686	1401
55°	1671	1384	1236
60°	1449	1139	1091
65°	1270	914	1007
70°	1133	775	1013
75°	1105	817	1132
80°	1226	1031	1299
85°	1278	1099	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.3
10°-20°	280.9	12.5
20°-30°	420.2	18.6
30°-40°	474.3	21.0
40°-50°	402.3	17.8
50°-60°	272.2	12.1
60°-70°	162.5	7.2
70°-80°	101.8	4.5
80°-90°	42.8	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°	799.1	35.4
0°-40°	1273.3	56.5
0°-60°	1947.9	86.4
0°-90°	2255.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2255.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1033	1033	1033	1033	1033	
5°	1034	1031	1026	1034	1032	98
15°	1000	998	991	998	994	282
25°	919	916	910	914	911	423
35°	777	772	763	756	746	484
45°	567	569	546	468	435	437
55°	356	339	295	264	263	321
65°	200	166	144	153	158	199
75°	106	95	79	104	109	114
85°	41	39	36	46	49	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1033.3	1033.3	1033.3	1033.3	1033.3
2.5°	1037.0	1033.9	1029.2	1035.4	1034.9
5°	1034.4	1031.2	1026.5	1033.9	1031.8
7.5°	1029.7	1027.1	1022.3	1029.2	1027.1
10°	1021.3	1019.2	1015.0	1020.8	1017.6
12.5°	1012.4	1010.8	1005.6	1010.8	1007.7
15°	999.8	997.7	990.9	997.7	994.1
17.5°	984.1	981.5	975.7	981.5	978.3
20°	965.8	962.6	956.9	962.6	959.5
22.5°	943.8	941.2	935.9	941.2	937.0
25°	919.2	916.0	910.3	914.5	910.8
27.5°	890.9	886.7	881.5	884.6	882.5
30°	856.8	851.6	847.9	847.9	844.3
32.5°	819.7	816.0	809.7	806.0	801.3
35°	777.2	772.0	763.1	756.3	745.8
37.5°	731.7	725.4	714.4	697.1	683.0
40°	680.3	672.5	663.1	629.0	603.3
42.5°	625.3	623.8	607.5	549.4	513.8
45°	567.2	569.3	545.7	467.7	435.2
47.5°	508.6	515.9	472.9	396.5	379.7
50°	457.2	459.8	402.8	344.1	334.7
52.5°	404.3	400.1	343.6	302.7	295.9
55°	356.1	339.4	294.9	264.0	263.4
57.5°	313.7	282.8	251.9	228.9	231.5
60°	269.2	234.6	211.6	199.0	202.7
62.5°	229.9	196.9	176.5	172.8	179.1
65°	199.5	165.5	143.5	152.9	158.2
67.5°	170.7	141.9	116.8	139.3	141.4
70°	144.0	123.1	98.5	128.3	128.8
72.5°	122.0	108.9	85.4	116.3	117.8
75°	106.3	94.8	78.6	103.7	108.9
77.5°	93.2	81.2	72.8	89.6	98.5
80°	79.1	65.5	66.5	74.9	83.8
82.5°	60.8	50.8	52.9	61.8	68.1
85°	41.4	39.3	35.6	46.1	49.2
87.5°	22.0	20.9	18.3	26.2	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)