

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: P291097

Luminaire Tested: **14GR-LD5-24-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291097
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2289.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

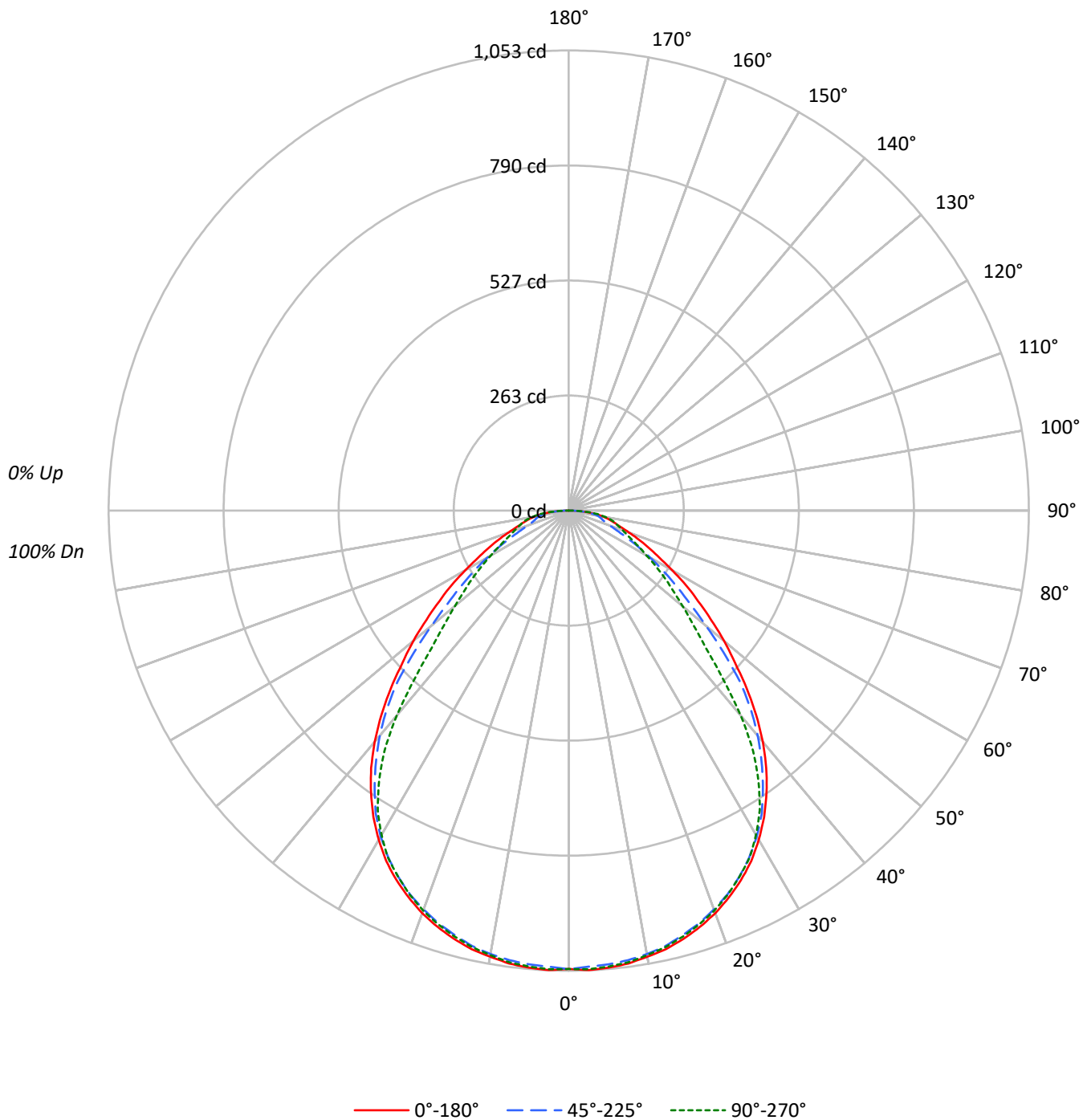
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	83	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	71	91	82	75	70	79	74	69		77	72	68		74
4	86	75	67	61	84	74	67	61	72	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	57	48	43	67	56	48	43	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	43	38		48
9	61	48	40	35	59	47	40	35	46	39	35		45	39	35		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2823	2823	2823
5°	2836	2815	2829
10°	2833	2815	2823
15°	2827	2802	2811
20°	2807	2781	2789
25°	2770	2744	2745
30°	2703	2674	2663
35°	2592	2545	2487
40°	2426	2364	2151
45°	2191	2108	1681
50°	1943	1711	1422
55°	1696	1404	1255
60°	1471	1156	1107
65°	1290	928	1023
70°	1150	786	1029
75°	1122	829	1150
80°	1244	1046	1319
85°	1297	1118	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.5	4.3
10°-20°	285.1	12.5
20°-30°	426.5	18.6
30°-40°	481.4	21.0
40°-50°	408.4	17.8
50°-60°	276.3	12.1
60°-70°	165.0	7.2
70°-80°	103.3	4.5
80°-90°	43.5	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°	811.1	35.4
0°-40°	1292.5	56.5
0°-60°	1977.3	86.4
0°-90°	2289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1049	1049	1049	1049	1049	
5°	1050	1047	1042	1050	1047	100
15°	1015	1013	1006	1013	1009	286
25°	933	930	924	928	924	429
35°	789	784	775	768	757	492
45°	576	578	554	475	442	444
55°	362	344	299	268	267	326
65°	203	168	146	155	161	202
75°	108	96	80	105	111	116
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°	1048.9	1048.9	1048.9	1048.9	1048.9
2.5°	1052.6	1049.5	1044.7	1051.0	1050.5
5°	1050.0	1046.8	1042.0	1049.5	1047.3
7.5°	1045.2	1042.5	1037.8	1044.7	1042.5
10°	1036.7	1034.6	1030.3	1036.2	1033.0
12.5°	1027.7	1026.1	1020.7	1026.1	1022.9
15°	1014.9	1012.8	1005.9	1012.8	1009.0
17.5°	998.9	996.3	990.4	996.3	993.1
20°	980.3	977.2	971.3	977.2	974.0
22.5°	958.0	955.4	950.0	955.4	951.1
25°	933.0	929.8	924.0	928.2	924.5
27.5°	904.3	900.1	894.7	897.9	895.8
30°	869.8	864.4	860.7	860.7	857.0
32.5°	832.0	828.3	821.9	818.2	813.4
35°	789.0	783.6	774.6	767.7	757.1
37.5°	742.7	736.3	725.2	707.6	693.3
40°	690.6	682.6	673.1	638.5	612.4
42.5°	634.8	633.2	616.7	557.7	521.5
45°	575.8	577.9	554.0	474.8	441.8
47.5°	516.2	523.7	480.1	402.4	385.4
50°	464.1	466.8	408.8	349.3	339.7
52.5°	410.4	406.2	348.8	307.3	300.4
55°	361.5	344.5	299.3	267.9	267.4
57.5°	318.5	287.1	255.7	232.3	235.0
60°	273.3	238.2	214.8	202.0	205.7
62.5°	233.4	199.9	179.2	175.4	181.8
65°	202.6	168.0	145.7	155.2	160.6
67.5°	173.3	144.1	118.6	141.4	143.5
70°	146.2	124.9	99.9	130.3	130.8
72.5°	123.9	110.6	86.7	118.0	119.6
75°	107.9	96.2	79.7	105.3	110.6
77.5°	94.6	82.4	73.9	90.9	99.9
80°	80.3	66.5	67.5	76.0	85.1
82.5°	61.7	51.6	53.7	62.7	69.1
85°	42.0	39.9	36.2	46.8	50.0
87.5°	22.3	21.3	18.6	26.6	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)