

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: P291293

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2292.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

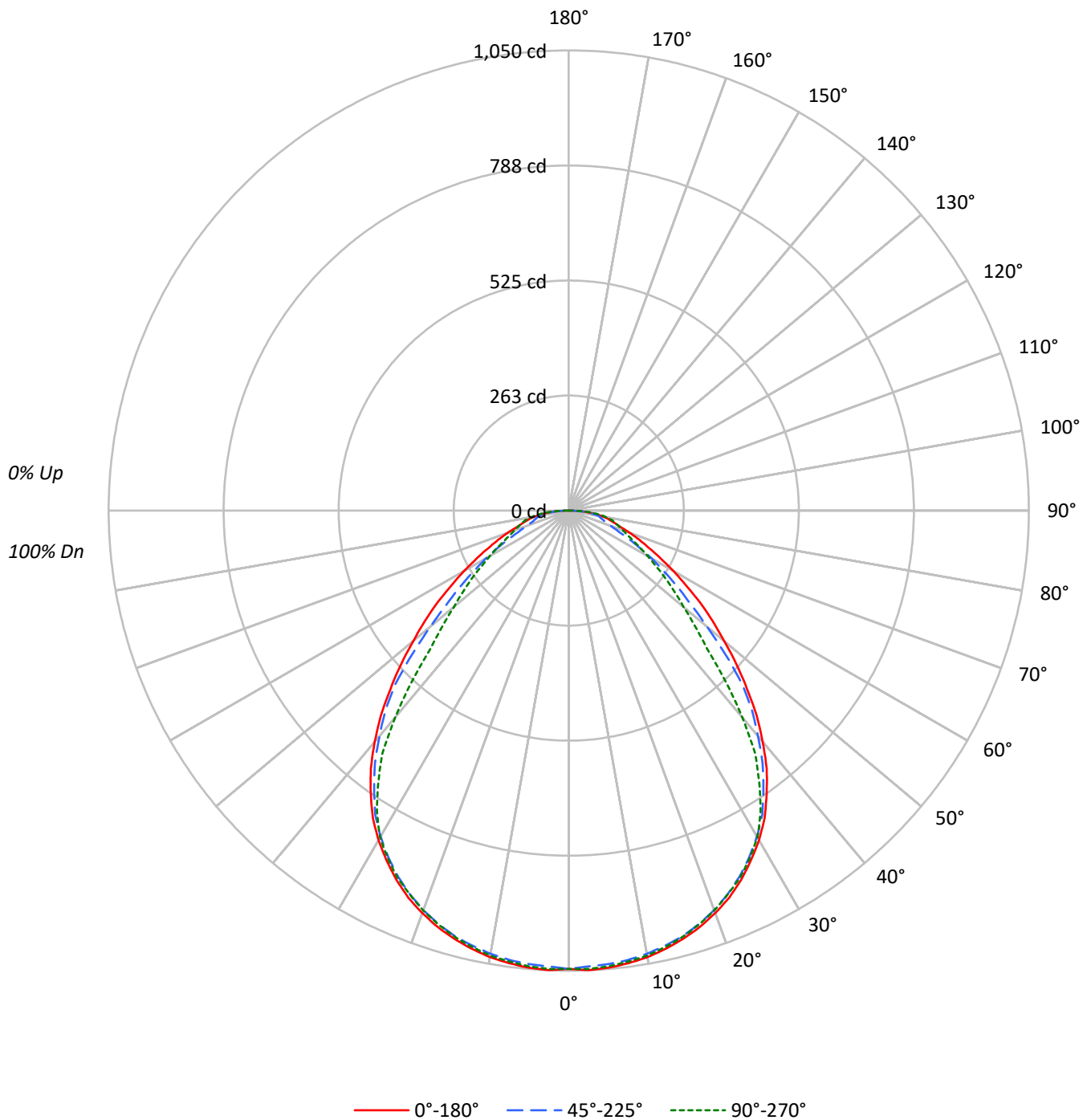
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42		53	47	42		51
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		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°	2814	2814	2814
5°	2828	2807	2820
10°	2827	2806	2817
15°	2817	2800	2804
20°	2799	2777	2780
25°	2761	2736	2744
30°	2698	2668	2675
35°	2587	2543	2489
40°	2419	2359	2165
45°	2189	2127	1698
50°	1937	1721	1431
55°	1714	1415	1263
60°	1480	1171	1119
65°	1287	931	1029
70°	1163	799	1029
75°	1117	835	1150
80°	1244	1063	1344
85°	1312	1133	1609



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	4.3
10°-20°	284.3	12.4
20°-30°	425.5	18.6
30°-40°	481.7	21.0
40°-50°	410.3	17.9
50°-60°	277.8	12.1
60°-70°	165.9	7.2
70°-80°	103.6	4.5
80°-90°	43.8	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°	809.0	35.3
0°-40°	1290.7	56.3
0°-60°	1978.7	86.3
0°-90°	2292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1047	1044	1039	1045	1044	100
15°	1011	1008	1005	1011	1007	285
25°	930	927	922	926	924	428
35°	788	783	774	766	758	491
45°	575	577	559	476	446	444
55°	365	345	302	269	269	327
65°	202	169	146	156	162	204
75°	107	96	80	105	111	116
85°	42	39	37	46	52	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045.9	1045.9	1045.9	1045.9	1045.9
2.5°	1049.6	1047.0	1041.1	1048.0	1047.0
5°	1047.0	1044.3	1039.0	1045.4	1043.8
7.5°	1041.7	1039.0	1034.2	1040.6	1037.9
10°	1034.7	1031.6	1026.8	1033.7	1031.0
12.5°	1024.1	1020.9	1016.7	1023.6	1019.9
15°	1011.3	1007.6	1005.0	1011.3	1006.6
17.5°	995.9	992.7	989.0	995.4	990.1
20°	977.3	974.7	969.9	973.6	970.9
22.5°	956.0	952.3	947.5	951.8	948.1
25°	930.0	927.3	921.5	925.7	924.1
27.5°	900.2	898.6	891.7	897.0	894.4
30°	868.3	864.1	858.7	860.3	860.9
32.5°	831.6	826.3	822.1	818.3	814.6
35°	787.5	782.7	774.2	766.2	757.7
37.5°	741.8	735.4	726.9	709.3	698.7
40°	688.6	685.4	671.6	647.1	616.3
42.5°	634.4	631.2	618.9	564.2	530.7
45°	575.3	576.9	558.8	476.4	446.1
47.5°	519.0	523.2	483.9	406.8	390.8
50°	462.6	467.4	411.0	351.5	341.9
52.5°	413.2	409.4	350.4	308.4	304.1
55°	365.3	345.1	301.5	269.1	269.1
57.5°	316.4	287.7	256.3	235.6	235.6
60°	274.9	239.3	217.5	203.7	207.9
62.5°	236.6	198.9	180.3	177.6	182.9
65°	202.1	168.6	146.2	156.3	161.6
67.5°	173.9	144.1	120.2	141.4	144.6
70°	147.8	125.5	101.6	130.3	130.8
72.5°	123.9	110.6	87.2	118.0	120.2
75°	107.4	96.2	80.3	105.3	110.6
77.5°	94.1	82.4	73.9	90.9	101.0
80°	80.3	67.5	68.6	76.6	86.7
82.5°	61.7	52.1	54.2	62.7	70.7
85°	42.5	39.3	36.7	46.3	52.1
87.5°	22.9	21.3	18.6	26.1	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)