

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: P291187

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291187
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-LD5-20-A125-UNV-L82765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

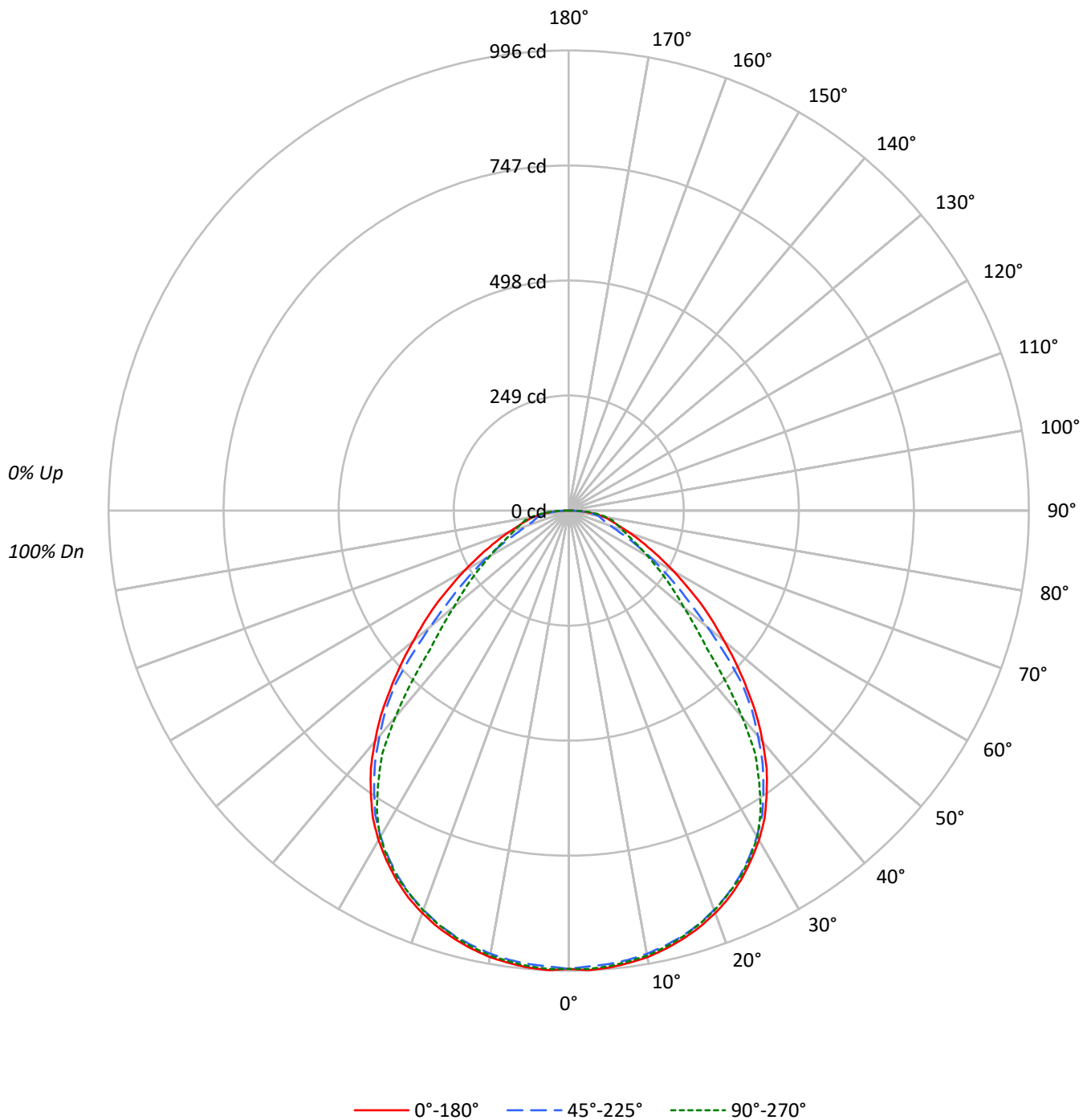
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80		85	81	78		74
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		64
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42		53	47	42		40
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		36
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		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°	2670	2670	2670
5°	2683	2662	2674
10°	2682	2661	2672
15°	2673	2656	2660
20°	2655	2634	2637
25°	2619	2595	2603
30°	2559	2531	2537
35°	2454	2412	2361
40°	2294	2238	2053
45°	2077	2017	1611
50°	1837	1632	1358
55°	1626	1342	1197
60°	1404	1110	1061
65°	1221	883	976
70°	1103	758	976
75°	1059	792	1091
80°	1181	1009	1274
85°	1244	1074	1525



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	4.3
10°-20°	269.7	12.4
20°-30°	403.6	18.6
30°-40°	456.9	21.0
40°-50°	389.2	17.9
50°-60°	263.5	12.1
60°-70°	157.3	7.2
70°-80°	98.3	4.5
80°-90°	41.5	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°	767.4	35.3
0°-40°	1224.2	56.3
0°-60°	1876.9	86.3
0°-90°	2174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2174.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	993	991	986	992	990	94
15°	959	956	953	959	955	271
25°	882	880	874	878	877	406
35°	747	742	734	727	719	466
45°	546	547	530	452	423	421
55°	346	327	286	255	255	310
65°	192	160	139	148	153	193
75°	102	91	76	100	105	110
85°	40	37	35	44	49	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.1	992.1	992.1	992.1	992.1
2.5°	995.6	993.1	987.5	994.1	993.1
5°	993.1	990.6	985.5	991.6	990.0
7.5°	988.0	985.5	981.0	987.0	984.5
10°	981.5	978.4	973.9	980.5	977.9
12.5°	971.4	968.4	964.3	970.9	967.4
15°	959.3	955.8	953.2	959.3	954.7
17.5°	944.7	941.6	938.1	944.2	939.1
20°	927.0	924.5	919.9	923.5	921.0
22.5°	906.8	903.3	898.8	902.8	899.3
25°	882.1	879.6	874.0	878.1	876.6
27.5°	853.9	852.4	845.8	850.8	848.3
30°	823.6	819.6	814.5	816.0	816.5
32.5°	788.8	783.8	779.7	776.2	772.7
35°	746.9	742.4	734.3	726.8	718.7
37.5°	703.6	697.5	689.5	672.8	662.7
40°	653.1	650.1	637.0	613.8	584.5
42.5°	601.7	598.7	587.1	535.1	503.3
45°	545.7	547.2	530.1	451.9	423.2
47.5°	492.2	496.3	459.0	385.8	370.7
50°	438.8	443.3	389.9	333.4	324.3
52.5°	391.9	388.4	332.4	292.5	288.5
55°	346.5	327.3	286.0	255.2	255.2
57.5°	300.1	272.9	243.1	223.4	223.4
60°	260.8	227.0	206.3	193.2	197.2
62.5°	224.4	188.6	171.0	168.5	173.5
65°	191.7	159.9	138.7	148.3	153.3
67.5°	164.9	136.7	114.0	134.2	137.2
70°	140.2	119.0	96.3	123.6	124.1
72.5°	117.5	104.9	82.7	112.0	114.0
75°	101.9	91.3	76.2	99.9	104.9
77.5°	89.3	78.2	70.1	86.2	95.8
80°	76.2	64.1	65.1	72.6	82.2
82.5°	58.5	49.4	51.4	59.5	67.1
85°	40.3	37.3	34.8	43.9	49.4
87.5°	21.7	20.2	17.7	24.7	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)