

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: P291145

Luminaire Tested: **14GR-LD5-20-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291145
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1971.0 lumens
Efficiency: N/A
Efficacy: 126.9 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

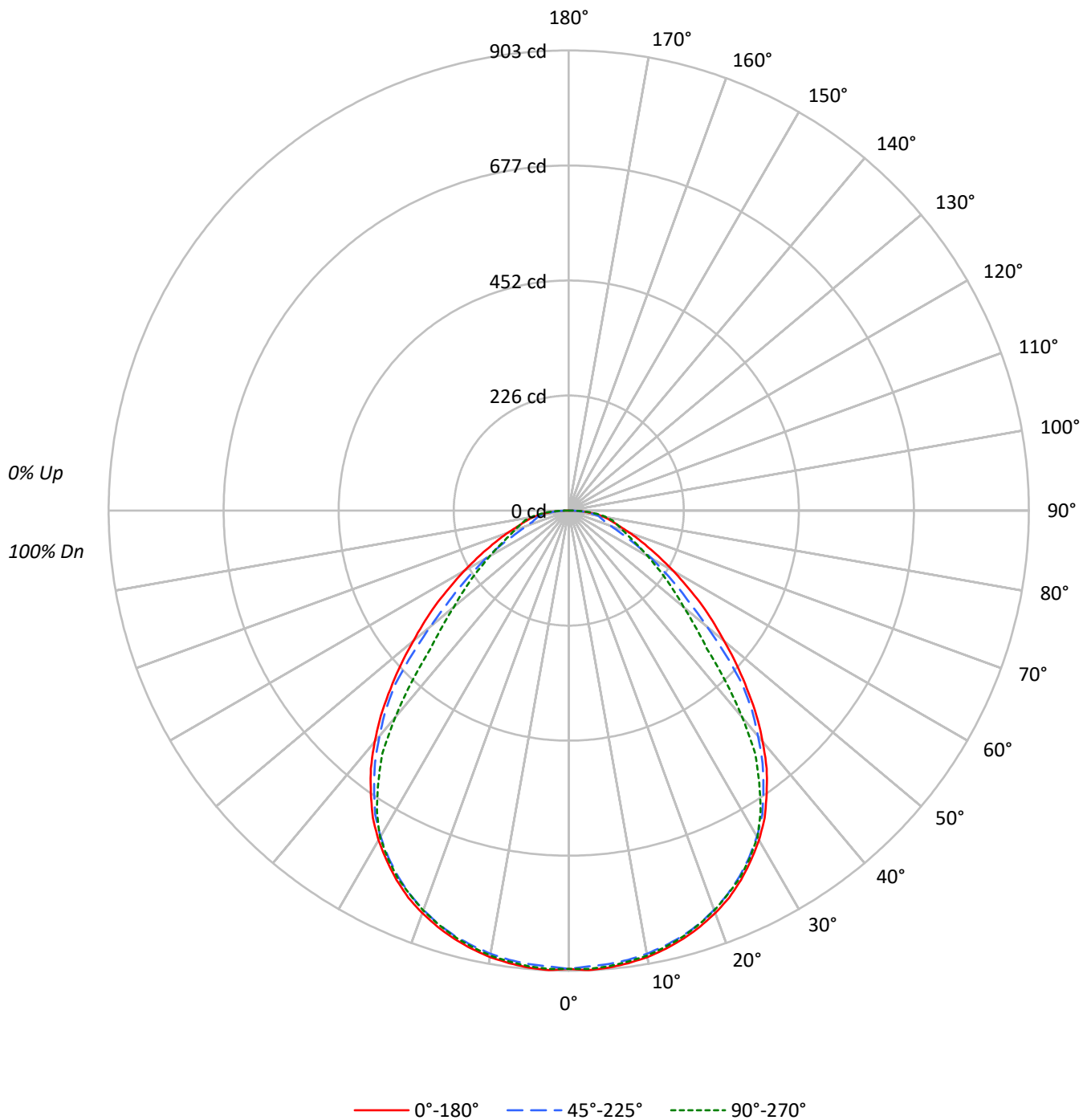
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2420	2420	2420
5°	2432	2414	2425
10°	2431	2413	2423
15°	2423	2408	2411
20°	2407	2388	2391
25°	2374	2353	2360
30°	2320	2295	2300
35°	2225	2187	2141
40°	2080	2029	1862
45°	1883	1829	1460
50°	1665	1480	1231
55°	1474	1217	1086
60°	1272	1006	962
65°	1107	800	885
70°	1000	687	885
75°	961	717	989
80°	1069	914	1155
85°	1130	976	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.3	4.3
10°-20°	244.5	12.4
20°-30°	365.9	18.6
30°-40°	414.2	21.0
40°-50°	352.8	17.9
50°-60°	238.9	12.1
60°-70°	142.6	7.2
70°-80°	89.1	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°	695.7	35.3
0°-40°	1109.9	56.3
0°-60°	1701.6	86.3
0°-90°	1971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	900	898	894	899	898	86
15°	870	866	864	870	866	245
25°	800	798	792	796	795	368
35°	677	673	666	659	652	422
45°	495	496	481	410	384	382
55°	314	297	259	231	231	281
65°	174	145	126	134	139	175
75°	92	83	69	90	95	100
85°	37	34	32	40	45	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	899.4	899.4	899.4	899.4	899.4
2.5°	902.6	900.3	895.3	901.3	900.3
5°	900.3	898.1	893.5	899.0	897.6
7.5°	895.8	893.5	889.4	894.9	892.6
10°	889.8	887.1	883.0	888.9	886.6
12.5°	880.7	877.9	874.3	880.2	877.0
15°	869.7	866.5	864.2	869.7	865.6
17.5°	856.4	853.7	850.5	856.0	851.4
20°	840.4	838.2	834.0	837.2	835.0
22.5°	822.2	819.0	814.8	818.5	815.3
25°	799.7	797.5	792.4	796.1	794.7
27.5°	774.1	772.8	766.8	771.4	769.1
30°	746.7	743.0	738.5	739.8	740.3
32.5°	715.2	710.6	706.9	703.7	700.5
35°	677.2	673.1	665.8	658.9	651.6
37.5°	637.9	632.4	625.1	610.0	600.8
40°	592.2	589.4	577.5	556.5	530.0
42.5°	545.5	542.8	532.2	485.2	456.3
45°	494.8	496.1	480.6	409.7	383.6
47.5°	446.3	449.9	416.1	349.8	336.1
50°	397.8	401.9	353.5	302.2	294.0
52.5°	355.3	352.1	301.3	265.2	261.6
55°	314.1	296.8	259.3	231.4	231.4
57.5°	272.1	247.4	220.4	202.6	202.6
60°	236.4	205.8	187.0	175.1	178.8
62.5°	203.5	171.0	155.0	152.7	157.3
65°	173.8	145.0	125.7	134.4	139.0
67.5°	149.5	123.9	103.3	121.6	124.4
70°	127.1	107.9	87.3	112.0	112.5
72.5°	106.5	95.1	75.0	101.5	103.3
75°	92.4	82.8	69.0	90.5	95.1
77.5°	80.9	70.9	63.6	78.2	86.9
80°	69.0	58.1	59.0	65.8	74.5
82.5°	53.0	44.8	46.6	54.0	60.8
85°	36.6	33.8	31.6	39.8	44.8
87.5°	19.7	18.3	16.0	22.4	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)