

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: P291147

Luminaire Tested: **14GR-LD5-20-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291147
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2189.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

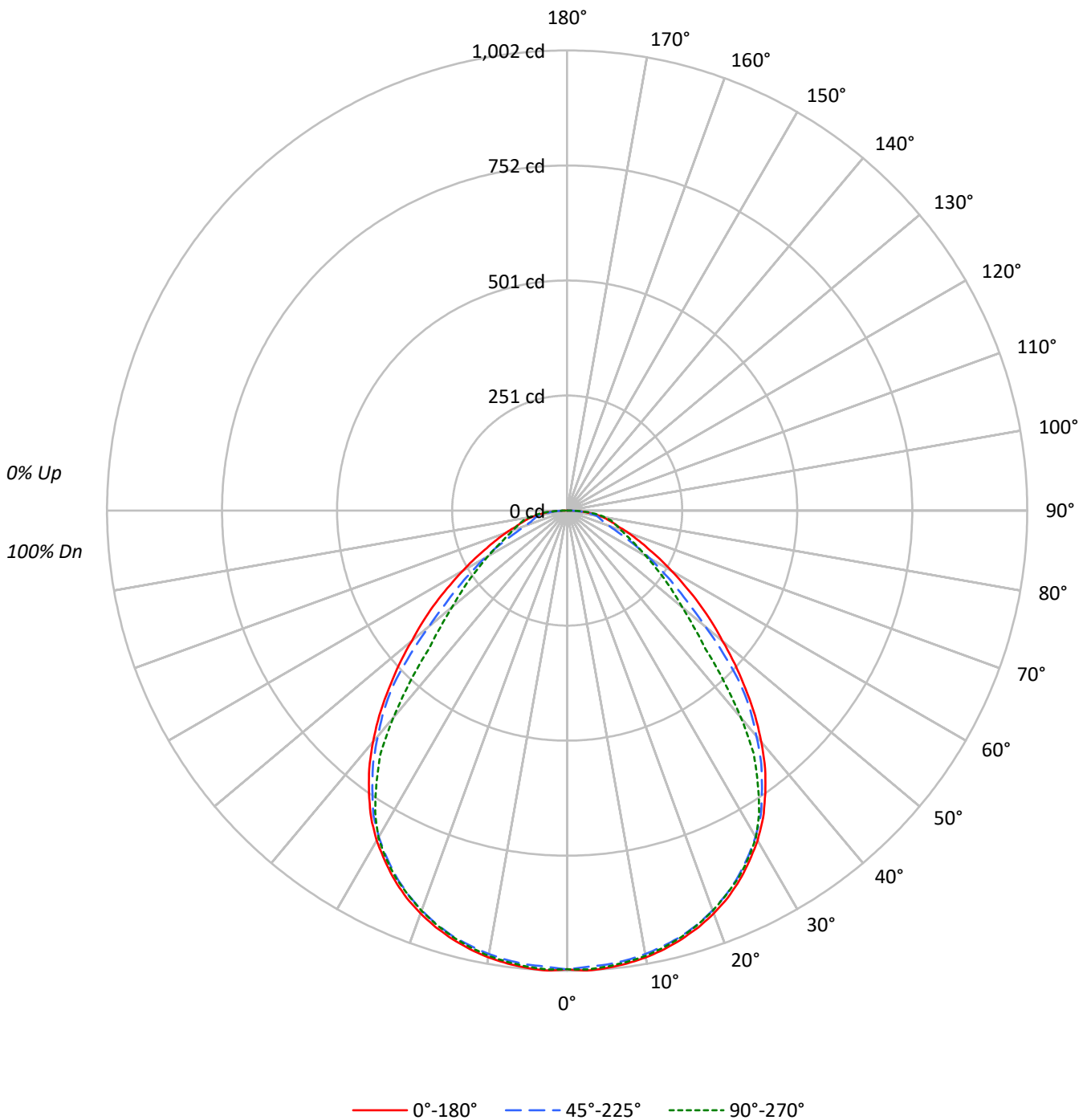
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2688	2688	2688
5°	2701	2680	2693
10°	2700	2679	2691
15°	2691	2674	2678
20°	2673	2653	2655
25°	2637	2613	2621
30°	2577	2549	2555
35°	2471	2429	2377
40°	2310	2253	2068
45°	2091	2031	1622
50°	1850	1644	1367
55°	1637	1351	1206
60°	1413	1118	1069
65°	1229	890	983
70°	1111	763	983
75°	1067	797	1098
80°	1189	1015	1283
85°	1254	1081	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	4.3
10°-20°	271.5	12.4
20°-30°	406.4	18.6
30°-40°	460.0	21.0
40°-50°	391.8	17.9
50°-60°	265.3	12.1
60°-70°	158.4	7.2
70°-80°	99.0	4.5
80°-90°	41.8	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°	772.7	35.3
0°-40°	1232.7	56.3
0°-60°	1889.8	86.3
0°-90°	2189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	1000	997	992	998	997	95
15°	966	962	960	966	961	272
25°	888	886	880	884	883	408
35°	752	748	739	732	724	469
45°	550	551	534	455	426	424
55°	349	330	288	257	257	312
65°	193	161	140	149	154	195
75°	103	92	77	101	106	111
85°	41	38	35	44	50	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.9	998.9	998.9	998.9	998.9
2.5°	1002.5	999.9	994.3	1000.9	999.9
5°	999.9	997.4	992.3	998.4	996.9
7.5°	994.8	992.3	987.7	993.8	991.3
10°	988.2	985.2	980.6	987.2	984.7
12.5°	978.1	975.0	971.0	977.6	974.0
15°	965.9	962.3	959.8	965.9	961.3
17.5°	951.2	948.1	944.6	950.7	945.6
20°	933.4	930.9	926.3	929.8	927.3
22.5°	913.1	909.5	905.0	909.0	905.5
25°	888.2	885.7	880.1	884.1	882.6
27.5°	859.8	858.2	851.6	856.7	854.2
30°	829.3	825.2	820.2	821.7	822.2
32.5°	794.3	789.2	785.1	781.6	778.0
35°	752.1	747.5	739.4	731.8	723.7
37.5°	708.4	702.3	694.2	677.5	667.3
40°	657.6	654.6	641.4	618.0	588.6
42.5°	605.8	602.8	591.1	538.8	506.8
45°	549.5	551.0	533.7	455.0	426.1
47.5°	495.6	499.7	462.1	388.5	373.3
50°	441.8	446.4	392.6	335.7	326.5
52.5°	394.6	391.0	334.7	294.5	290.5
55°	348.9	329.6	287.9	257.0	257.0
57.5°	302.2	274.7	244.8	225.0	225.0
60°	262.6	228.5	207.7	194.5	198.6
62.5°	226.0	189.9	172.2	169.6	174.7
65°	193.0	161.0	139.7	149.3	154.4
67.5°	166.1	137.6	114.8	135.1	138.1
70°	141.2	119.8	97.0	124.4	124.9
72.5°	118.3	105.6	83.3	112.7	114.8
75°	102.6	91.9	76.7	100.6	105.6
77.5°	89.9	78.7	70.6	86.8	96.5
80°	76.7	64.5	65.5	73.1	82.8
82.5°	58.9	49.8	51.8	59.9	67.5
85°	40.6	37.6	35.0	44.2	49.8
87.5°	21.8	20.3	17.8	24.9	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)