

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: P291245

Luminaire Tested: **14GR-LD5-20-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291245
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1914.0 lumens
Efficiency: N/A
Efficacy: 120.4 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

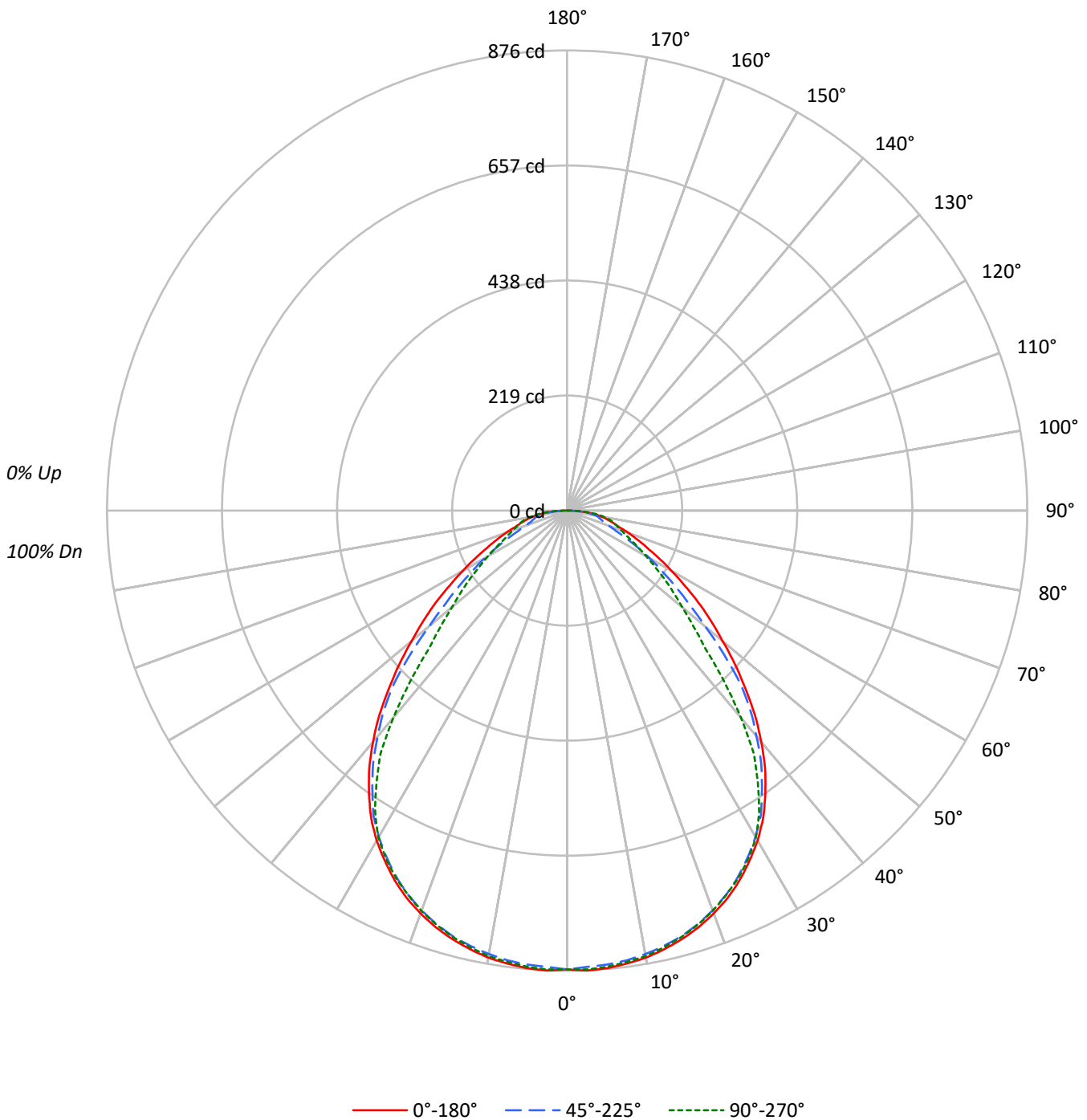
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2350	2350	2350
5°	2362	2344	2354
10°	2361	2343	2353
15°	2353	2338	2342
20°	2337	2319	2322
25°	2306	2285	2291
30°	2253	2228	2234
35°	2160	2124	2079
40°	2020	1970	1808
45°	1828	1776	1418
50°	1617	1437	1195
55°	1431	1181	1054
60°	1236	977	934
65°	1074	777	860
70°	971	667	859
75°	933	697	961
80°	1038	888	1122
85°	1096	945	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	4.3
10°-20°	237.4	12.4
20°-30°	355.3	18.6
30°-40°	402.2	21.0
40°-50°	342.6	17.9
50°-60°	232.0	12.1
60°-70°	138.5	7.2
70°-80°	86.5	4.5
80°-90°	36.6	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°	675.6	35.3
0°-40°	1077.8	56.3
0°-60°	1652.4	86.3
0°-90°	1914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	874	872	868	873	872	83
15°	845	841	839	845	841	238
25°	777	774	770	773	772	357
35°	658	654	646	640	633	410
45°	480	482	467	398	372	371
55°	305	288	252	225	225	273
65°	169	141	122	130	135	170
75°	90	80	67	88	92	97
85°	36	33	31	39	44	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.4	873.4	873.4	873.4	873.4
2.5°	876.5	874.3	869.4	875.2	874.3
5°	874.3	872.1	867.6	873.0	871.6
7.5°	869.9	867.6	863.6	869.0	866.8
10°	864.1	861.4	857.4	863.2	861.0
12.5°	855.2	852.5	849.0	854.8	851.7
15°	844.6	841.4	839.2	844.6	840.6
17.5°	831.7	829.0	825.9	831.2	826.8
20°	816.1	813.9	809.9	813.0	810.8
22.5°	798.4	795.3	791.3	794.8	791.7
25°	776.6	774.4	769.5	773.1	771.7
27.5°	751.8	750.4	744.6	749.1	746.9
30°	725.1	721.6	717.1	718.4	718.9
32.5°	694.5	690.0	686.5	683.4	680.3
35°	657.6	653.6	646.5	639.9	632.8
37.5°	619.4	614.1	607.0	592.3	583.5
40°	575.0	572.4	560.8	540.4	514.6
42.5°	529.7	527.1	516.9	471.1	443.1
45°	480.4	481.8	466.7	397.9	372.5
47.5°	433.4	436.9	404.1	339.7	326.4
50°	386.3	390.3	343.2	293.5	285.5
52.5°	345.0	341.9	292.6	257.5	254.0
55°	305.1	288.2	251.8	224.7	224.7
57.5°	264.2	240.2	214.0	196.7	196.7
60°	229.6	199.8	181.6	170.1	173.6
62.5°	197.6	166.1	150.5	148.3	152.7
65°	168.7	140.8	122.1	130.5	135.0
67.5°	145.2	120.3	100.4	118.1	120.8
70°	123.4	104.8	84.8	108.8	109.2
72.5°	103.5	92.4	72.8	98.6	100.4
75°	89.7	80.4	67.0	87.9	92.4
77.5°	78.6	68.8	61.7	75.9	84.4
80°	67.0	56.4	57.3	63.9	72.4
82.5°	51.5	43.5	45.3	52.4	59.1
85°	35.5	32.9	30.6	38.6	43.5
87.5°	19.1	17.8	15.5	21.8	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)