

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: P291180

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291180
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

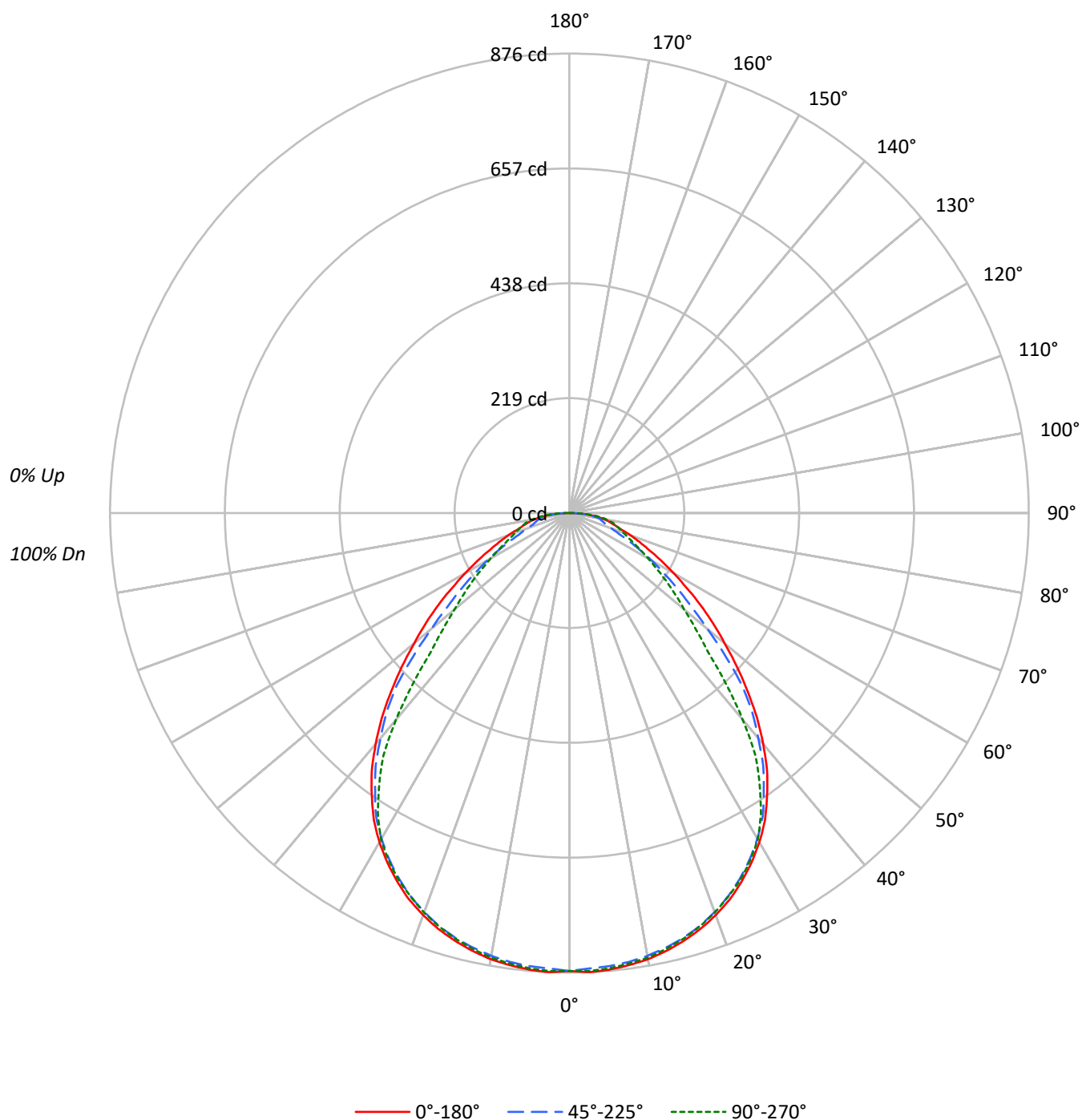
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2349	2349	2349
5°	2360	2343	2353
10°	2360	2342	2351
15°	2352	2337	2340
20°	2336	2318	2321
25°	2305	2284	2290
30°	2252	2227	2233
35°	2159	2123	2077
40°	2019	1969	1807
45°	1827	1775	1417
50°	1616	1436	1195
55°	1430	1180	1054
60°	1235	977	934
65°	1074	777	859
70°	971	667	859
75°	932	697	960
80°	1038	888	1120
85°	1096	945	1343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	4.3
10°-20°	237.3	12.4
20°-30°	355.1	18.6
30°-40°	402.0	21.0
40°-50°	342.4	17.9
50°-60°	231.9	12.1
60°-70°	138.4	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°	675.2	35.3
0°-40°	1077.3	56.3
0°-60°	1651.5	86.3
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	874	872	867	872	871	83
15°	844	841	839	844	840	238
25°	776	774	769	773	771	357
35°	657	653	646	640	632	410
45°	480	482	466	398	372	370
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°	873.0	873.0	873.0	873.0	873.0
2.5°	876.1	873.8	869.0	874.7	873.8
5°	873.8	871.6	867.2	872.5	871.2
7.5°	869.4	867.2	863.2	868.5	866.3
10°	863.6	861.0	857.0	862.8	860.5
12.5°	854.8	852.1	848.6	854.3	851.2
15°	844.1	841.0	838.8	844.1	840.1
17.5°	831.2	828.6	825.5	830.8	826.4
20°	815.7	813.5	809.5	812.6	810.4
22.5°	798.0	794.9	790.9	794.4	791.3
25°	776.2	774.0	769.1	772.7	771.3
27.5°	751.4	750.0	744.3	748.7	746.5
30°	724.7	721.2	716.7	718.1	718.5
32.5°	694.1	689.7	686.1	683.0	679.9
35°	657.3	653.3	646.2	639.5	632.4
37.5°	619.1	613.8	606.7	592.0	583.2
40°	574.7	572.1	560.5	540.1	514.4
42.5°	529.5	526.8	516.6	470.9	442.9
45°	480.2	481.5	466.4	397.6	372.4
47.5°	433.2	436.7	403.9	339.5	326.2
50°	386.1	390.1	343.1	293.4	285.4
52.5°	344.8	341.7	292.5	257.4	253.9
55°	304.9	288.0	251.6	224.6	224.6
57.5°	264.1	240.1	213.9	196.6	196.6
60°	229.4	199.7	181.5	170.0	173.5
62.5°	197.5	166.0	150.4	148.2	152.7
65°	168.6	140.7	122.0	130.5	134.9
67.5°	145.1	120.3	100.3	118.1	120.7
70°	123.4	104.7	84.8	108.7	109.2
72.5°	103.4	92.3	72.8	98.5	100.3
75°	89.6	80.3	67.0	87.9	92.3
77.5°	78.6	68.8	61.7	75.9	84.3
80°	67.0	56.4	57.3	63.9	72.3
82.5°	51.5	43.5	45.3	52.4	59.0
85°	35.5	32.8	30.6	38.6	43.5
87.5°	19.1	17.8	15.5	21.7	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)