

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: P291186

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291186
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2168.0 lumens
Efficiency: N/A
Efficacy: 135.5 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

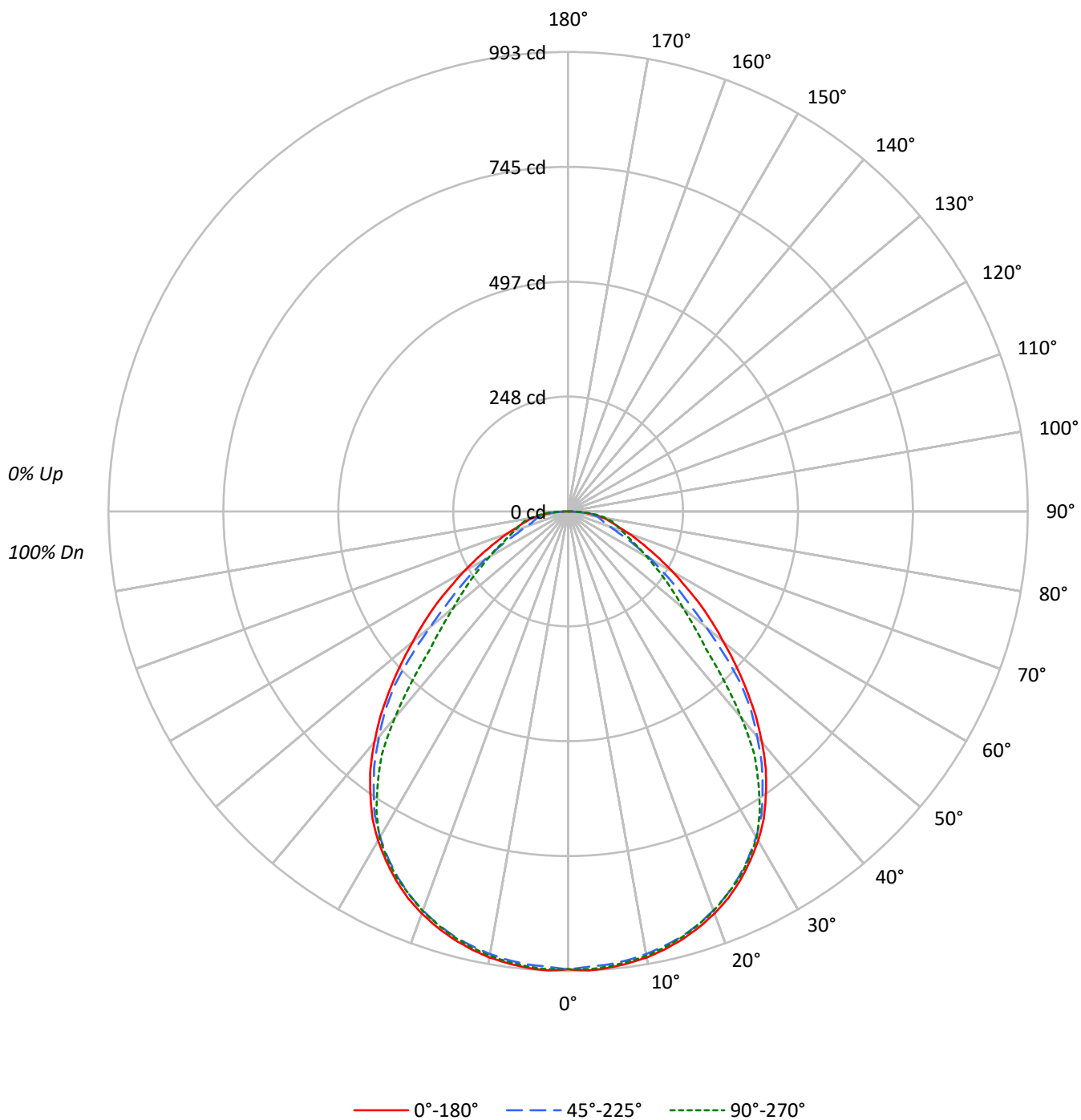
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2662	2662	2662
5°	2675	2655	2667
10°	2675	2654	2665
15°	2665	2648	2652
20°	2647	2627	2630
25°	2612	2588	2595
30°	2552	2524	2530
35°	2447	2406	2354
40°	2288	2231	2048
45°	2071	2012	1606
50°	1832	1628	1354
55°	1621	1338	1194
60°	1399	1107	1059
65°	1217	881	974
70°	1100	756	973
75°	1056	789	1088
80°	1176	1006	1271
85°	1241	1071	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	4.3
10°-20°	268.9	12.4
20°-30°	402.5	18.6
30°-40°	455.6	21.0
40°-50°	388.1	17.9
50°-60°	262.8	12.1
60°-70°	156.9	7.2
70°-80°	98.0	4.5
80°-90°	41.4	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°	765.3	35.3
0°-40°	1220.9	56.3
0°-60°	1871.7	86.3
0°-90°	2168.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2168.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	990	988	983	989	987	94
15°	957	953	951	957	952	270
25°	880	877	872	876	874	405
35°	745	740	732	725	717	464
45°	544	546	529	451	422	420
55°	346	326	285	254	254	309
65°	191	159	138	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°	989.3	989.3	989.3	989.3	989.3
2.5°	992.8	990.3	984.8	991.3	990.3
5°	990.3	987.8	982.8	988.8	987.3
7.5°	985.3	982.8	978.3	984.3	981.8
10°	978.8	975.7	971.2	977.8	975.2
12.5°	968.7	965.7	961.7	968.2	964.7
15°	956.6	953.1	950.6	956.6	952.1
17.5°	942.0	939.0	935.5	941.5	936.5
20°	924.4	921.9	917.4	920.9	918.4
22.5°	904.3	900.8	896.3	900.3	896.8
25°	879.7	877.2	871.6	875.7	874.1
27.5°	851.5	850.0	843.5	848.5	846.0
30°	821.3	817.3	812.3	813.8	814.3
32.5°	786.6	781.6	777.6	774.1	770.5
35°	744.9	740.4	732.3	724.8	716.7
37.5°	701.6	695.6	687.5	671.0	660.9
40°	651.3	648.3	635.2	612.1	582.9
42.5°	600.0	597.0	585.4	533.6	502.0
45°	544.2	545.7	528.6	450.7	422.0
47.5°	490.9	494.9	457.7	384.8	369.7
50°	437.6	442.1	388.8	332.5	323.4
52.5°	390.8	387.3	331.5	291.7	287.7
55°	345.5	326.4	285.2	254.5	254.5
57.5°	299.3	272.1	242.4	222.8	222.8
60°	260.0	226.3	205.7	192.6	196.7
62.5°	223.8	188.1	170.5	168.0	173.0
65°	191.1	159.4	138.3	147.9	152.9
67.5°	164.5	136.3	113.7	133.8	136.8
70°	139.8	118.7	96.1	123.2	123.7
72.5°	117.2	104.6	82.5	111.7	113.7
75°	101.6	91.0	75.9	99.6	104.6
77.5°	89.0	78.0	69.9	86.0	95.6
80°	75.9	63.9	64.9	72.4	82.0
82.5°	58.3	49.3	51.3	59.3	66.9
85°	40.2	37.2	34.7	43.8	49.3
87.5°	21.6	20.1	17.6	24.6	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)