

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: P291278

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291278
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-L92765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1634.0 lumens
Efficiency: N/A
Efficacy: 105.2 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

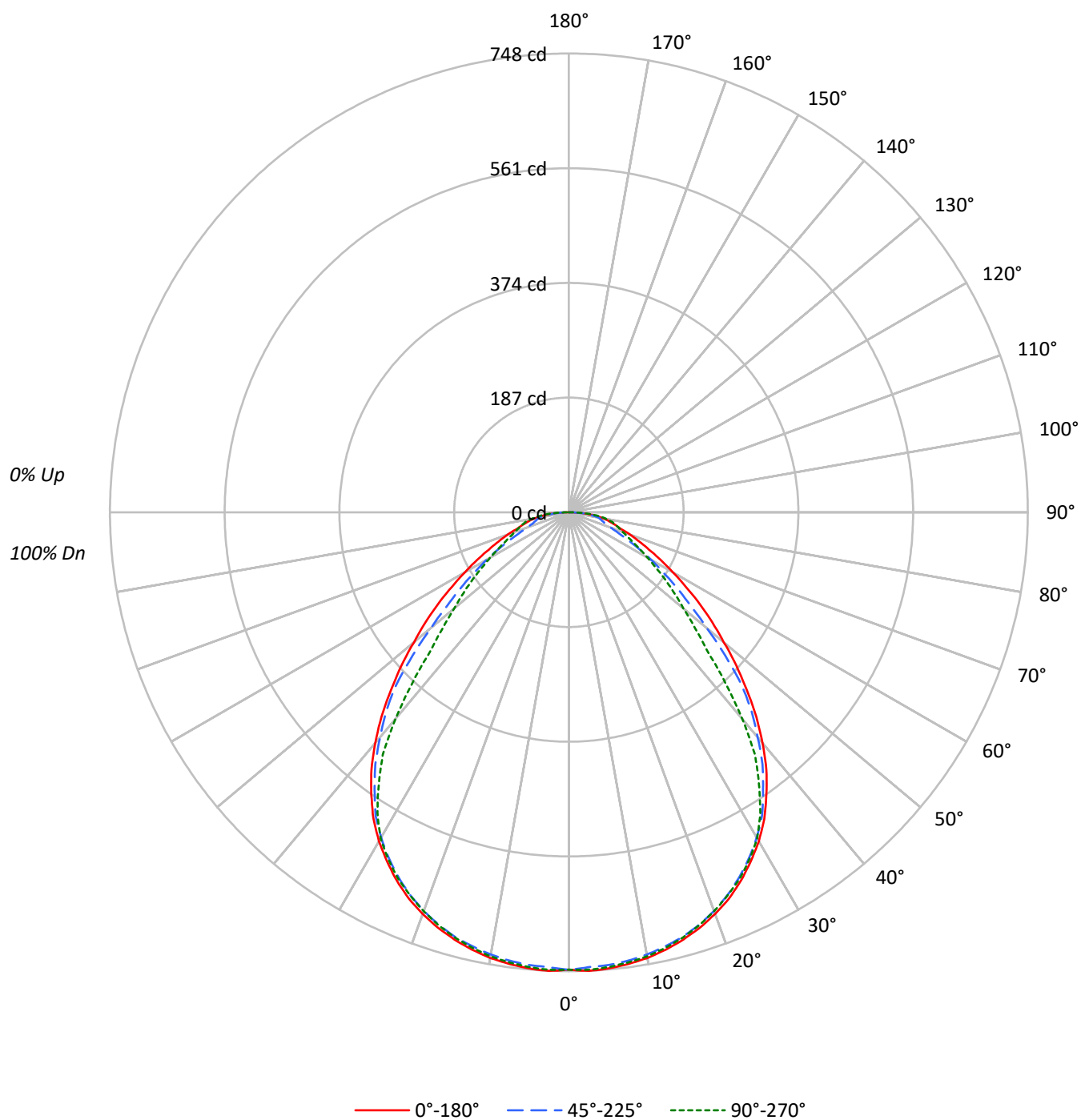
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
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	51	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°	2006	2006	2006
5°	2016	2001	2010
10°	2016	2000	2008
15°	2009	1996	1999
20°	1995	1980	1982
25°	1969	1950	1956
30°	1923	1902	1907
35°	1844	1813	1775
40°	1724	1682	1544
45°	1561	1516	1210
50°	1381	1227	1020
55°	1222	1008	900
60°	1055	834	798
65°	917	663	734
70°	829	570	734
75°	796	595	819
80°	886	758	958
85°	936	809	1145



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	4.3
10°-20°	202.7	12.4
20°-30°	303.3	18.6
30°-40°	343.4	21.0
40°-50°	292.5	17.9
50°-60°	198.0	12.1
60°-70°	118.2	7.2
70°-80°	73.9	4.5
80°-90°	31.2	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°	576.8	35.3
0°-40°	920.1	56.3
0°-60°	1410.7	86.3
0°-90°	1634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	746	744	741	745	744	71
15°	721	718	716	721	718	203
25°	663	661	657	660	659	305
35°	561	558	552	546	540	350
45°	410	411	398	340	318	316
55°	260	246	215	192	192	233
65°	144	120	104	111	115	145
75°	77	69	57	75	79	83
85°	30	28	26	33	37	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	745.6	745.6	745.6	745.6	745.6
2.5°	748.3	746.4	742.2	747.2	746.4
5°	746.4	744.5	740.7	745.3	744.1
7.5°	742.6	740.7	737.3	741.9	740.0
10°	737.7	735.4	732.0	736.9	735.0
12.5°	730.1	727.8	724.8	729.7	727.1
15°	721.0	718.4	716.5	721.0	717.6
17.5°	710.0	707.7	705.1	709.6	705.8
20°	696.7	694.8	691.4	694.1	692.2
22.5°	681.6	678.9	675.5	678.5	675.9
25°	663.0	661.1	656.9	660.0	658.8
27.5°	641.8	640.6	635.7	639.5	637.6
30°	619.0	616.0	612.2	613.3	613.7
32.5°	592.9	589.1	586.1	583.4	580.7
35°	561.4	558.0	551.9	546.3	540.2
37.5°	528.8	524.3	518.2	505.7	498.1
40°	490.9	488.6	478.8	461.3	439.4
42.5°	452.2	450.0	441.2	402.2	378.3
45°	410.2	411.3	398.4	339.7	318.0
47.5°	370.0	373.0	345.0	290.0	278.6
50°	329.8	333.2	293.0	250.6	243.7
52.5°	294.5	291.9	249.8	219.9	216.8
55°	260.4	246.0	214.9	191.8	191.8
57.5°	225.6	205.1	182.7	167.9	167.9
60°	196.0	170.6	155.0	145.2	148.2
62.5°	168.7	141.8	128.5	126.6	130.4
65°	144.0	120.2	104.2	111.4	115.2
67.5°	124.0	102.7	85.7	100.8	103.1
70°	105.4	89.5	72.4	92.9	93.3
72.5°	88.3	78.8	62.2	84.2	85.7
75°	76.6	68.6	57.2	75.1	78.8
77.5°	67.1	58.8	52.7	64.8	72.0
80°	57.2	48.1	48.9	54.6	61.8
82.5°	44.0	37.1	38.7	44.7	50.4
85°	30.3	28.1	26.2	33.0	37.1
87.5°	16.3	15.2	13.3	18.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)