

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: P291279

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291279
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1699.0 lumens
Efficiency: N/A
Efficacy: 110.7 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

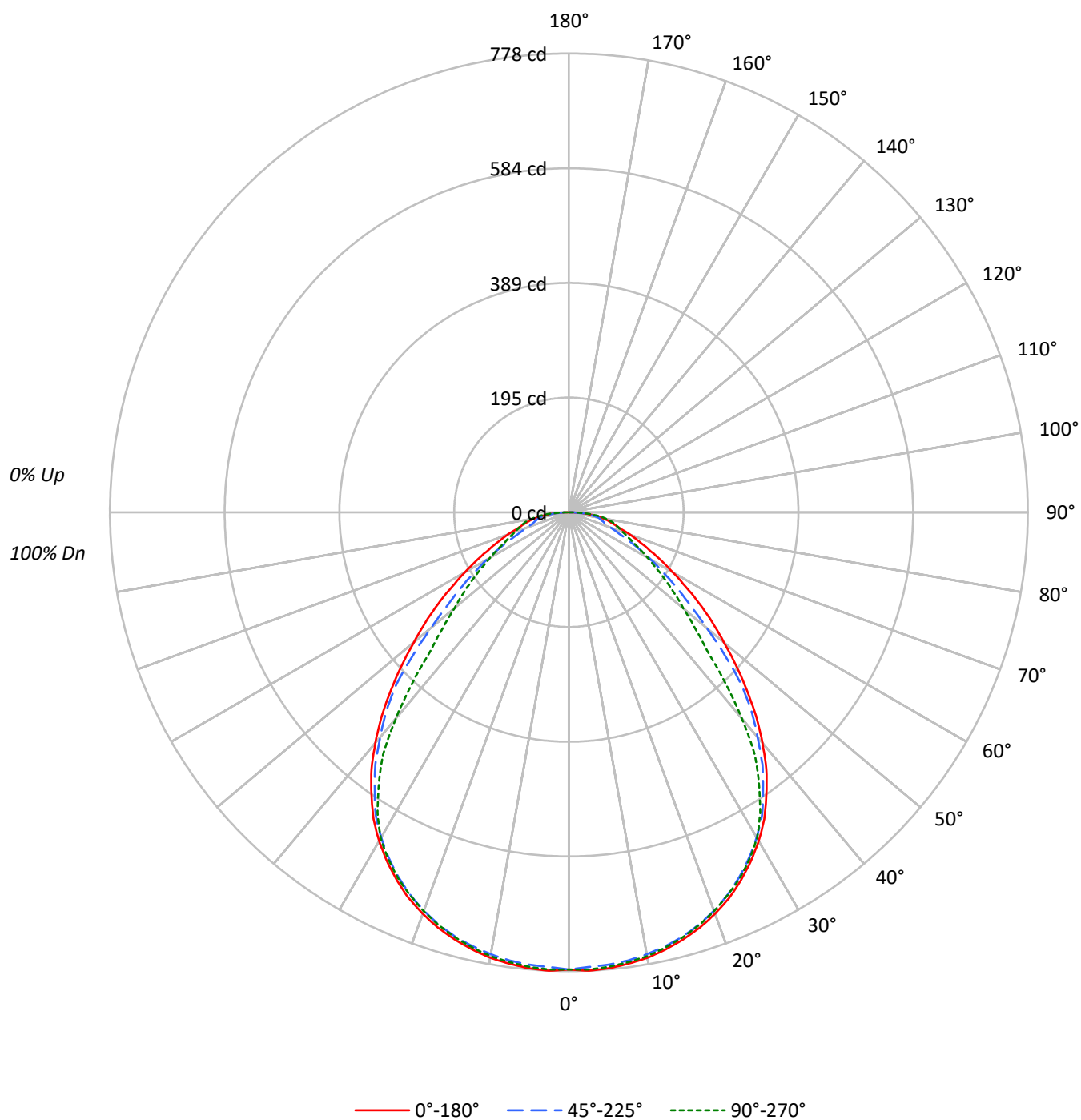
Input Watts (W): 15.345
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2086	2086	2086
5°	2096	2081	2090
10°	2096	2080	2088
15°	2089	2076	2079
20°	2075	2059	2061
25°	2047	2028	2034
30°	2000	1978	1983
35°	1918	1885	1845
40°	1793	1749	1605
45°	1623	1577	1259
50°	1436	1276	1061
55°	1270	1049	936
60°	1097	868	829
65°	954	690	763
70°	862	592	763
75°	828	619	853
80°	922	787	995
85°	973	840	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	4.3
10°-20°	210.8	12.4
20°-30°	315.4	18.6
30°-40°	357.0	21.0
40°-50°	304.1	17.9
50°-60°	205.9	12.1
60°-70°	122.9	7.2
70°-80°	76.8	4.5
80°-90°	32.5	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°	599.7	35.3
0°-40°	956.7	56.3
0°-60°	1466.8	86.3
0°-90°	1699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	776	774	770	775	774	74
15°	750	747	745	750	746	211
25°	689	687	683	686	685	317
35°	584	580	574	568	562	364
45°	426	428	414	353	331	329
55°	271	256	224	199	199	242
65°	150	125	108	116	120	151
75°	80	71	60	78	82	86
85°	32	29	27	34	39	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.3	775.3	775.3	775.3	775.3
2.5°	778.1	776.1	771.8	776.9	776.1
5°	776.1	774.1	770.2	774.9	773.7
7.5°	772.2	770.2	766.6	771.4	769.4
10°	767.0	764.7	761.1	766.2	764.3
12.5°	759.1	756.8	753.6	758.8	756.0
15°	749.7	746.9	745.0	749.7	746.1
17.5°	738.3	735.9	733.1	737.9	733.9
20°	724.5	722.5	718.9	721.7	719.7
22.5°	708.7	705.9	702.4	705.5	702.8
25°	689.4	687.4	683.1	686.2	685.0
27.5°	667.3	666.1	661.0	664.9	663.0
30°	643.7	640.5	636.6	637.7	638.1
32.5°	616.5	612.5	609.4	606.6	603.8
35°	583.7	580.2	573.9	568.0	561.7
37.5°	549.8	545.1	538.8	525.8	517.9
40°	510.4	508.1	497.8	479.7	456.8
42.5°	470.2	467.9	458.8	418.2	393.4
45°	426.5	427.7	414.3	353.2	330.7
47.5°	384.7	387.9	358.7	301.5	289.7
50°	342.9	346.5	304.7	260.5	253.4
52.5°	306.3	303.5	259.7	228.6	225.5
55°	270.8	255.8	223.5	199.4	199.4
57.5°	234.5	213.2	190.0	174.6	174.6
60°	203.8	177.4	161.2	151.0	154.1
62.5°	175.4	147.4	133.6	131.6	135.6
65°	149.8	124.9	108.4	115.9	119.8
67.5°	128.9	106.8	89.1	104.8	107.2
70°	109.6	93.0	75.3	96.6	97.0
72.5°	91.8	82.0	64.6	87.5	89.1
75°	79.6	71.3	59.5	78.0	82.0
77.5°	69.8	61.1	54.8	67.4	74.9
80°	59.5	50.1	50.8	56.8	64.2
82.5°	45.7	38.6	40.2	46.5	52.4
85°	31.5	29.2	27.2	34.3	38.6
87.5°	16.9	15.8	13.8	19.3	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)