

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: P291183

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291183
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2081.0 lumens
Efficiency: N/A
Efficacy: 132.4 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

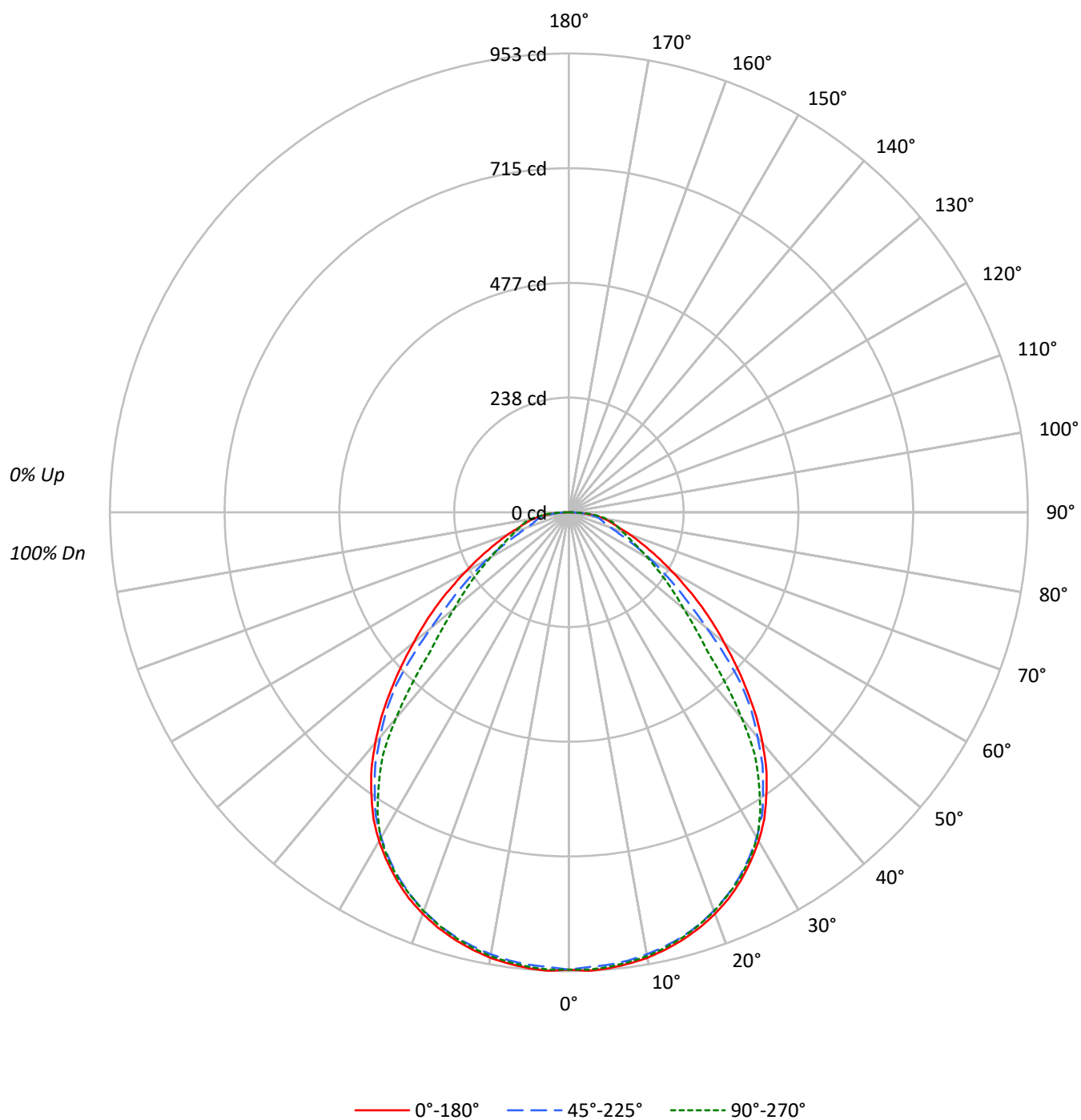
Input Watts (W): 15.717
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291183

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291183

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-4000K

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°	2555	2555	2555
5°	2568	2548	2560
10°	2567	2547	2558
15°	2558	2542	2546
20°	2541	2522	2525
25°	2507	2484	2491
30°	2450	2423	2429
35°	2349	2309	2260
40°	2196	2142	1965
45°	1988	1931	1542
50°	1758	1562	1299
55°	1556	1284	1146
60°	1343	1063	1016
65°	1168	846	935
70°	1056	725	935
75°	1014	758	1044
80°	1130	965	1220
85°	1192	1028	1460



TEST NUMBER: P291183

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	4.3
10°-20°	258.1	12.4
20°-30°	386.3	18.6
30°-40°	437.3	21.0
40°-50°	372.5	17.9
50°-60°	252.2	12.1
60°-70°	150.6	7.2
70°-80°	94.1	4.5
80°-90°	39.8	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°	734.5	35.3
0°-40°	1171.9	56.3
0°-60°	1796.6	86.3
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	950	950	950	950	950	
5°	951	948	943	949	948	90
15°	918	915	912	918	914	259
25°	844	842	837	840	839	388
35°	715	711	703	696	688	446
45°	522	524	507	433	405	403
55°	332	313	274	244	244	297
65°	184	153	133	142	147	185
75°	98	87	73	96	100	105
85°	39	36	33	42	47	41
90°	0	0	0	0	0	



TEST NUMBER: P291183

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	949.6	949.6	949.6	949.6	949.6
2.5°	953.0	950.6	945.3	951.6	950.6
5°	950.6	948.2	943.3	949.1	947.7
7.5°	945.8	943.3	939.0	944.8	942.4
10°	939.5	936.6	932.2	938.5	936.1
12.5°	929.8	926.9	923.1	929.3	926.0
15°	918.2	914.9	912.5	918.2	913.9
17.5°	904.2	901.3	898.0	903.8	898.9
20°	887.3	884.9	880.6	884.0	881.6
22.5°	868.0	864.7	860.3	864.2	860.8
25°	844.4	842.0	836.7	840.5	839.1
27.5°	817.3	815.9	809.6	814.4	812.0
30°	788.4	784.5	779.7	781.1	781.6
32.5°	755.1	750.2	746.4	743.0	739.6
35°	715.0	710.7	702.9	695.7	688.0
37.5°	673.5	667.7	660.0	644.0	634.4
40°	625.2	622.3	609.7	587.5	559.5
42.5°	576.0	573.1	562.0	512.2	481.8
45°	522.4	523.8	507.4	432.6	405.1
47.5°	471.2	475.1	439.3	369.3	354.8
50°	420.0	424.4	373.2	319.1	310.4
52.5°	375.1	371.7	318.2	280.0	276.1
55°	331.7	313.3	273.7	244.3	244.3
57.5°	287.3	261.2	232.7	213.9	213.9
60°	249.6	217.3	197.5	184.9	188.8
62.5°	214.8	180.6	163.7	161.2	166.1
65°	183.5	153.0	132.8	141.9	146.8
67.5°	157.9	130.8	109.1	128.4	131.3
70°	134.2	113.9	92.2	118.3	118.8
72.5°	112.5	100.4	79.2	107.2	109.1
75°	97.5	87.4	72.9	95.6	100.4
77.5°	85.5	74.8	67.1	82.6	91.7
80°	72.9	61.3	62.3	69.5	78.7
82.5°	56.0	47.3	49.2	57.0	64.2
85°	38.6	35.7	33.3	42.0	47.3
87.5°	20.8	19.3	16.9	23.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)