

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: P291284

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291284
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1957.0 lumens
Efficiency: N/A
Efficacy: 122.3 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

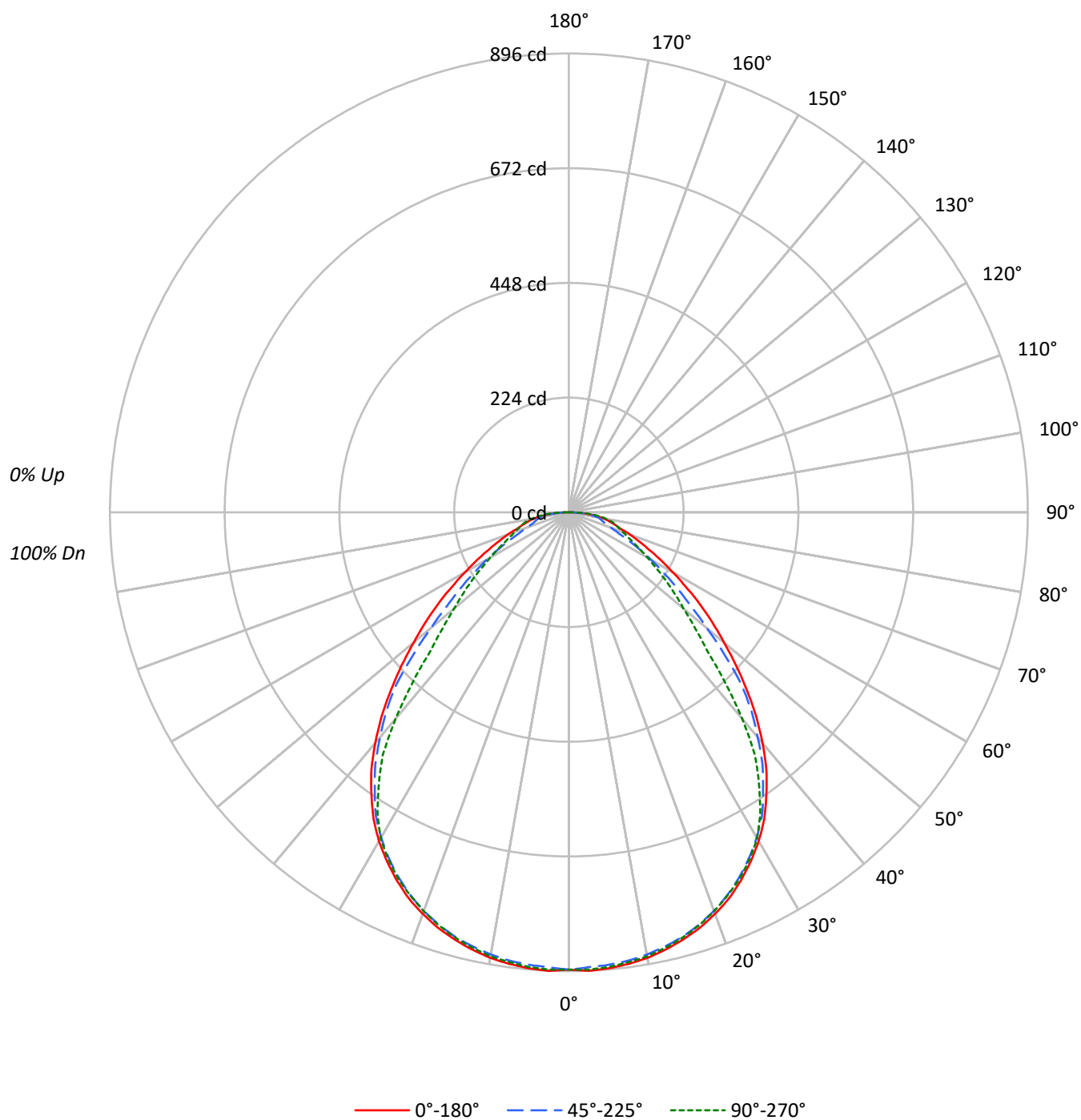
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291284

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291284

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K

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°	2403	2403	2403
5°	2415	2396	2407
10°	2414	2396	2405
15°	2406	2391	2394
20°	2390	2371	2374
25°	2358	2336	2343
30°	2304	2278	2284
35°	2209	2171	2125
40°	2065	2014	1848
45°	1869	1816	1450
50°	1654	1469	1222
55°	1463	1208	1078
60°	1263	999	955
65°	1098	795	879
70°	993	682	879
75°	953	713	981
80°	1063	908	1147
85°	1121	966	1374



TEST NUMBER: P291284

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	4.3
10°-20°	242.8	12.4
20°-30°	363.3	18.6
30°-40°	411.3	21.0
40°-50°	350.3	17.9
50°-60°	237.2	12.1
60°-70°	141.6	7.2
70°-80°	88.5	4.5
80°-90°	37.4	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°	690.8	35.3
0°-40°	1102.0	56.3
0°-60°	1689.5	86.3
0°-90°	1957.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1957.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	893	893	893	893	893	
5°	894	892	887	893	891	85
15°	864	860	858	864	859	244
25°	794	792	787	790	789	365
35°	672	668	661	654	647	419
45°	491	493	477	407	381	379
55°	312	295	257	230	230	279
65°	172	144	125	134	138	174
75°	92	82	69	90	94	99
85°	36	34	31	40	44	39
90°	0	0	0	0	0	



TEST NUMBER: P291284

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	893.0	893.0	893.0	893.0	893.0
2.5°	896.2	893.9	889.0	894.9	893.9
5°	893.9	891.7	887.1	892.6	891.2
7.5°	889.4	887.1	883.1	888.5	886.2
10°	883.5	880.8	876.7	882.6	880.3
12.5°	874.4	871.7	868.1	874.0	870.8
15°	863.5	860.4	858.1	863.5	859.4
17.5°	850.4	847.6	844.5	849.9	845.4
20°	834.5	832.2	828.1	831.3	829.0
22.5°	816.3	813.1	809.0	812.7	809.5
25°	794.1	791.8	786.8	790.4	789.1
27.5°	768.6	767.3	761.4	765.9	763.6
30°	741.4	737.8	733.2	734.6	735.0
32.5°	710.1	705.5	701.9	698.7	695.5
35°	672.4	668.3	661.0	654.2	647.0
37.5°	633.3	627.9	620.6	605.7	596.6
40°	587.9	585.2	573.4	552.5	526.2
42.5°	541.6	538.9	528.5	481.7	453.1
45°	491.2	492.6	477.2	406.8	380.9
47.5°	443.1	446.7	413.2	347.3	333.7
50°	395.0	399.1	351.0	300.1	291.9
52.5°	352.8	349.6	299.2	263.3	259.7
55°	311.9	294.7	257.4	229.7	229.7
57.5°	270.1	245.6	218.8	201.1	201.1
60°	234.7	204.3	185.7	173.9	177.5
62.5°	202.0	169.8	153.9	151.6	156.2
65°	172.5	143.9	124.9	133.5	138.0
67.5°	148.5	123.0	102.6	120.8	123.5
70°	126.2	107.1	86.7	111.2	111.7
72.5°	105.8	94.4	74.5	100.8	102.6
75°	91.7	82.2	68.6	89.9	94.4
77.5°	80.4	70.4	63.1	77.6	86.3
80°	68.6	57.7	58.6	65.4	74.0
82.5°	52.7	44.5	46.3	53.6	60.4
85°	36.3	33.6	31.3	39.5	44.5
87.5°	19.5	18.2	15.9	22.2	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)