

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: P291282

Luminaire Tested: **14GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291282
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

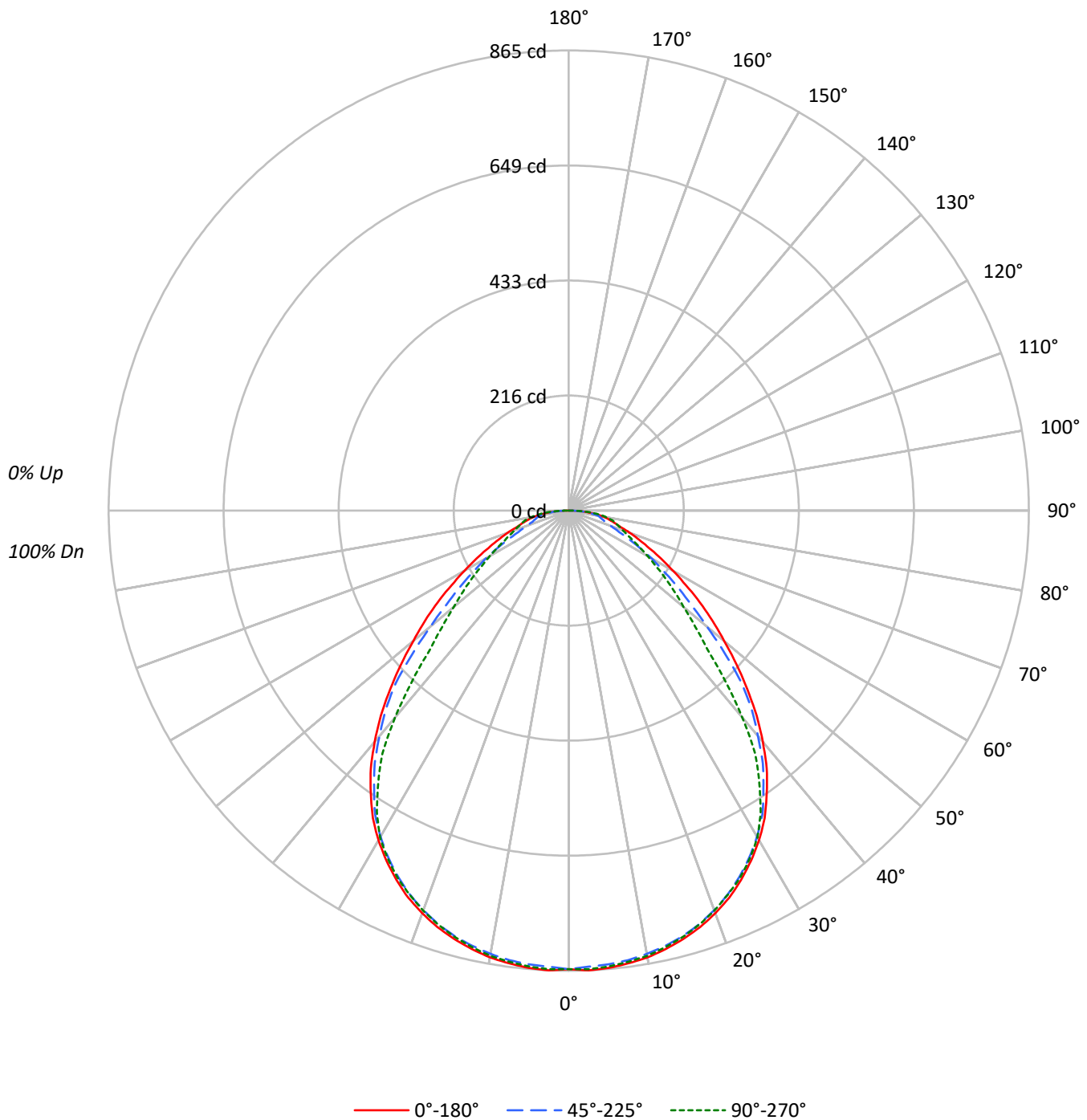
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291282

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P291282

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K

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	0		
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64		
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58	56		
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50		
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44		
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36		
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2320	2320	2320
5°	2331	2313	2324
10°	2330	2312	2322
15°	2322	2308	2311
20°	2307	2289	2292
25°	2276	2255	2262
30°	2224	2199	2205
35°	2132	2096	2052
40°	1994	1944	1784
45°	1805	1753	1399
50°	1596	1418	1180
55°	1413	1166	1040
60°	1220	964	922
65°	1060	767	848
70°	958	659	848
75°	920	688	948
80°	1026	876	1106
85°	1084	932	1325



TEST NUMBER: P291282

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	4.3
10°-20°	234.3	12.4
20°-30°	350.7	18.6
30°-40°	397.0	21.0
40°-50°	338.1	17.9
50°-60°	228.9	12.1
60°-70°	136.7	7.2
70°-80°	85.4	4.5
80°-90°	36.1	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°	666.8	35.3
0°-40°	1063.7	56.3
0°-60°	1630.8	86.3
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	863	861	856	862	860	82
15°	834	830	828	834	830	235
25°	766	764	760	763	762	352
35°	649	645	638	632	624	405
45°	474	476	461	393	368	366
55°	301	284	248	222	222	269
65°	166	139	120	129	133	168
75°	88	79	66	87	91	96
85°	35	32	30	38	43	38
90°	0	0	0	0	0	



TEST NUMBER: P291282

CATALOG NUMBER: 14GR-LD5-20-A125-UNV-L92765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.0	862.0	862.0	862.0	862.0
2.5°	865.1	862.9	858.1	863.8	862.9
5°	862.9	860.7	856.3	861.6	860.3
7.5°	858.5	856.3	852.4	857.6	855.4
10°	852.8	850.2	846.2	851.9	849.7
12.5°	844.0	841.4	837.9	843.6	840.5
15°	833.5	830.5	828.3	833.5	829.6
17.5°	820.8	818.2	815.1	820.4	816.0
20°	805.5	803.3	799.3	802.4	800.2
22.5°	787.9	784.9	780.9	784.4	781.4
25°	766.5	764.3	759.5	763.0	761.7
27.5°	741.9	740.6	734.9	739.3	737.1
30°	715.6	712.1	707.8	709.1	709.5
32.5°	685.4	681.0	677.5	674.4	671.4
35°	649.0	645.1	638.1	631.5	624.5
37.5°	611.3	606.1	599.1	584.6	575.8
40°	567.5	564.9	553.5	533.3	507.9
42.5°	522.8	520.2	510.1	465.0	437.4
45°	474.2	475.5	460.6	392.7	367.7
47.5°	427.7	431.2	398.8	335.3	322.1
50°	381.3	385.2	338.8	289.7	281.8
52.5°	340.5	337.4	288.8	254.2	250.7
55°	301.1	284.4	248.5	221.7	221.7
57.5°	260.8	237.1	211.2	194.1	194.1
60°	226.6	197.2	179.2	167.8	171.4
62.5°	195.0	163.9	148.6	146.4	150.8
65°	166.5	138.9	120.5	128.8	133.2
67.5°	143.3	118.8	99.0	116.6	119.2
70°	121.8	103.4	83.7	107.4	107.8
72.5°	102.1	91.2	71.9	97.3	99.0
75°	88.5	79.3	66.2	86.8	91.2
77.5°	77.6	67.9	60.9	74.9	83.3
80°	66.2	55.7	56.5	63.1	71.4
82.5°	50.8	42.9	44.7	51.7	58.3
85°	35.1	32.4	30.2	38.1	42.9
87.5°	18.8	17.5	15.3	21.5	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)