

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: P291290

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291290
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-LD5-24-A125-UNV-L92765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2155.9 lumens
Efficiency: N/A
Efficacy: 117.1 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

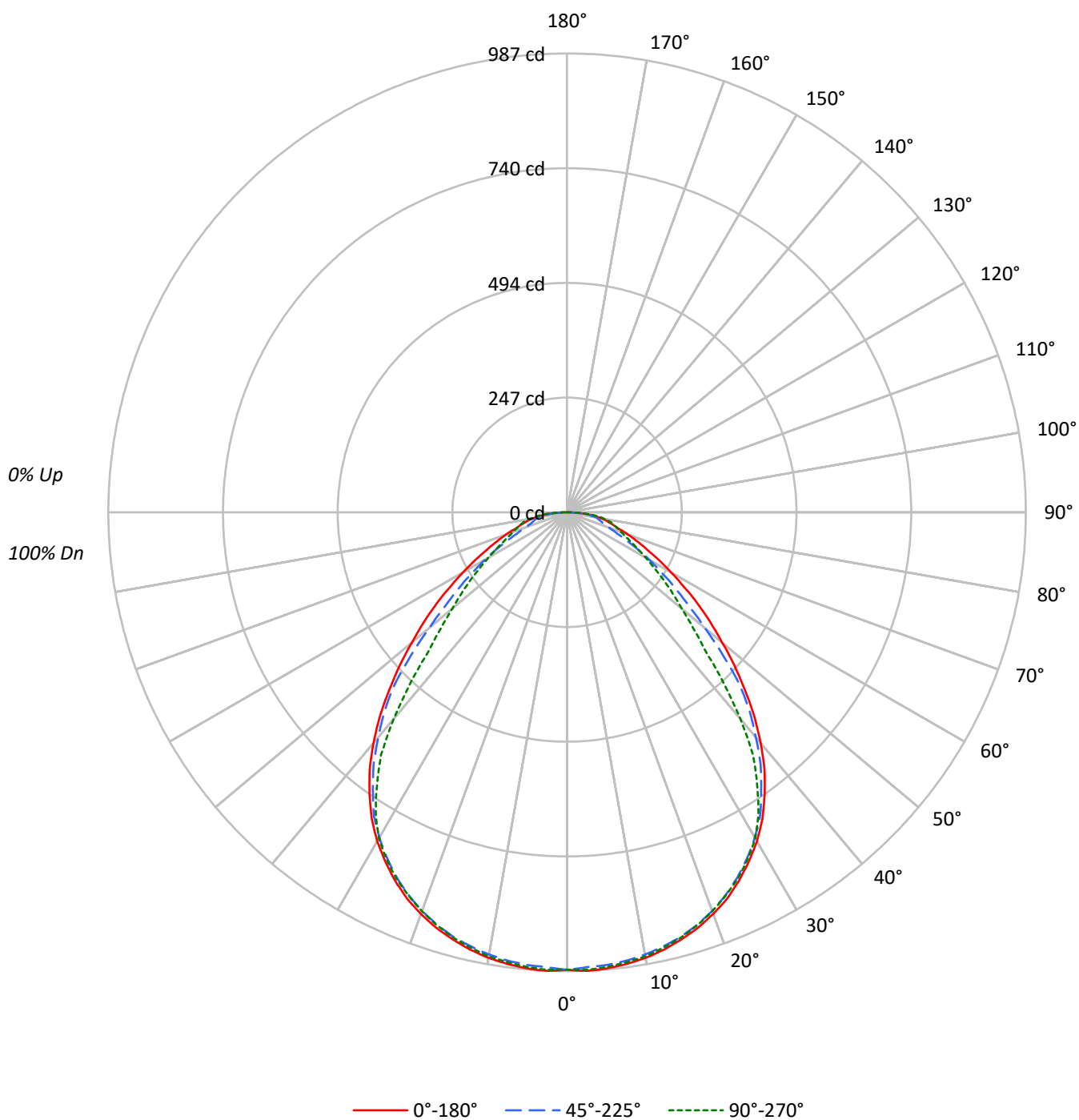
Input Watts (W): 18.414
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291290

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291290

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K

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°	2648	2648	2648
5°	2660	2640	2652
10°	2660	2639	2650
15°	2650	2634	2638
20°	2633	2613	2615
25°	2597	2574	2581
30°	2538	2510	2516
35°	2434	2393	2342
40°	2275	2219	2036
45°	2060	2001	1597
50°	1822	1618	1346
55°	1612	1331	1187
60°	1392	1101	1053
65°	1210	876	968
70°	1094	751	968
75°	1050	785	1081
80°	1170	1000	1263
85°	1235	1065	1513



TEST NUMBER: P291290

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	4.3
10°-20°	267.4	12.4
20°-30°	400.2	18.6
30°-40°	453.1	21.0
40°-50°	385.9	17.9
50°-60°	261.3	12.1
60°-70°	156.0	7.2
70°-80°	97.4	4.5
80°-90°	41.2	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°	761.0	35.3
0°-40°	1214.1	56.3
0°-60°	1861.3	86.3
0°-90°	2155.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2155.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	985	982	977	983	982	94
15°	951	948	945	951	947	268
25°	875	872	867	871	869	402
35°	741	736	728	721	713	462
45°	541	543	526	448	420	417
55°	344	325	284	253	253	307
65°	190	159	138	147	152	192
75°	101	90	76	99	104	109
85°	40	37	34	44	49	43
90°	0	0	0	0	0	



TEST NUMBER: P291290

CATALOG NUMBER: 14GR-LD5-24-A125-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.9	983.9	983.9	983.9	983.9
2.5°	987.4	984.9	979.3	985.9	984.9
5°	984.9	982.4	977.3	983.4	981.8
7.5°	979.8	977.3	972.8	978.8	976.3
10°	973.3	970.3	965.8	972.3	969.8
12.5°	963.3	960.3	956.3	962.8	959.3
15°	951.3	947.8	945.3	951.3	946.8
17.5°	936.8	933.8	930.3	936.3	931.3
20°	919.3	916.8	912.3	915.8	913.3
22.5°	899.3	895.8	891.3	895.3	891.8
25°	874.8	872.3	866.8	870.8	869.3
27.5°	846.8	845.3	838.8	843.8	841.3
30°	816.8	812.8	807.8	809.3	809.8
32.5°	782.3	777.3	773.3	769.8	766.3
35°	740.8	736.3	728.3	720.8	712.8
37.5°	697.7	691.7	683.7	667.2	657.2
40°	647.7	644.7	631.7	608.7	579.7
42.5°	596.7	593.7	582.2	530.7	499.2
45°	541.2	542.7	525.7	448.2	419.6
47.5°	488.2	492.2	455.2	382.6	367.6
50°	435.2	439.7	386.6	330.6	321.6
52.5°	388.6	385.1	329.6	290.1	286.1
55°	343.6	324.6	283.6	253.1	253.1
57.5°	297.6	270.6	241.1	221.6	221.6
60°	258.6	225.1	204.6	191.6	195.6
62.5°	222.6	187.1	169.6	167.1	172.1
65°	190.1	158.6	137.5	147.1	152.1
67.5°	163.6	135.5	113.0	133.0	136.0
70°	139.0	118.0	95.5	122.5	123.0
72.5°	116.5	104.0	82.0	111.0	113.0
75°	101.0	90.5	75.5	99.0	104.0
77.5°	88.5	77.5	69.5	85.5	95.0
80°	75.5	63.5	64.5	72.0	81.5
82.5°	58.0	49.0	51.0	59.0	66.5
85°	40.0	37.0	34.5	43.5	49.0
87.5°	21.5	20.0	17.5	24.5	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)