

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: P290995

Luminaire Tested: **14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2382.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

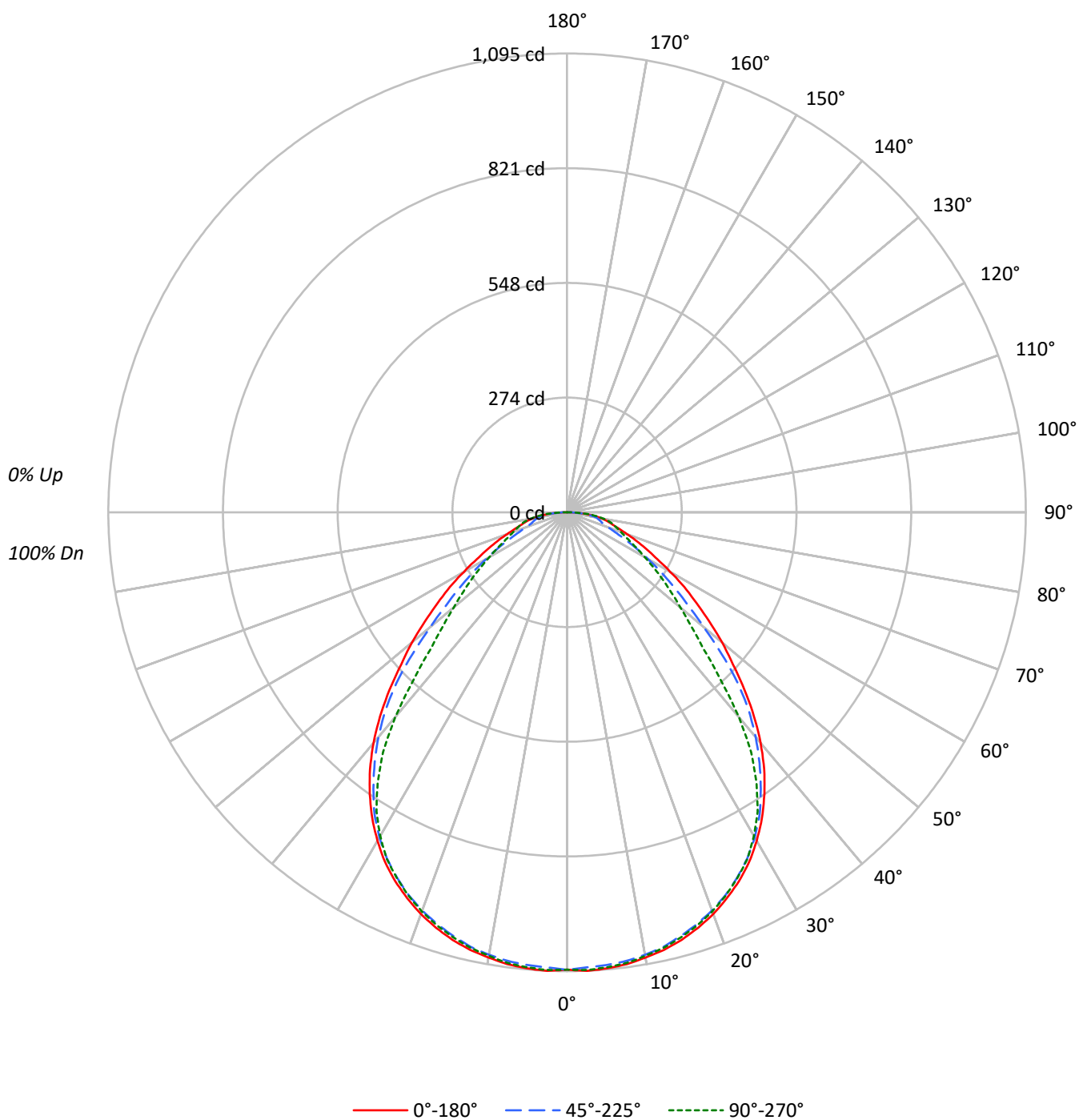
Input Watts (W): 18.321
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290995

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P290995

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K

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	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74		
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64		
4	86	75	67	61	84	74	67	61	72	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	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40		
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2937	2937	2937
5°	2951	2929	2944
10°	2948	2930	2937
15°	2942	2916	2925
20°	2922	2895	2902
25°	2883	2855	2857
30°	2812	2783	2771
35°	2697	2648	2588
40°	2525	2460	2239
45°	2280	2194	1749
50°	2022	1781	1480
55°	1765	1461	1306
60°	1531	1203	1152
65°	1342	965	1064
70°	1197	818	1071
75°	1168	863	1197
80°	1294	1089	1371
85°	1349	1161	1606



TEST NUMBER: P290995

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	4.3
10°-20°	296.7	12.5
20°-30°	443.8	18.6
30°-40°	501.0	21.0
40°-50°	425.0	17.8
50°-60°	287.6	12.1
60°-70°	171.7	7.2
70°-80°	107.5	4.5
80°-90°	45.2	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°	844.1	35.4
0°-40°	1345.0	56.5
0°-60°	2057.6	86.4
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1093	1089	1084	1092	1090	104
15°	1056	1054	1047	1054	1050	298
25°	971	968	962	966	962	446
35°	821	816	806	799	788	512
45°	599	601	576	494	460	462
55°	376	358	312	279	278	339
65°	211	175	152	162	167	211
75°	112	100	83	110	115	121
85°	44	42	38	49	52	47
90°	0	0	0	0	0	



TEST NUMBER: P290995

CATALOG NUMBER: 14GR-LD5-24-A-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1091.5	1091.5	1091.5	1091.5	1091.5
2.5°	1095.4	1092.1	1087.1	1093.8	1093.2
5°	1092.6	1089.3	1084.3	1092.1	1089.9
7.5°	1087.7	1084.9	1079.9	1087.1	1084.9
10°	1078.8	1076.6	1072.2	1078.3	1074.9
12.5°	1069.4	1067.7	1062.2	1067.7	1064.4
15°	1056.1	1053.9	1046.7	1053.9	1050.0
17.5°	1039.5	1036.8	1030.7	1036.8	1033.4
20°	1020.2	1016.9	1010.8	1016.9	1013.5
22.5°	996.9	994.2	988.6	994.2	989.7
25°	970.9	967.6	961.5	966.0	962.1
27.5°	941.1	936.6	931.1	934.4	932.2
30°	905.1	899.6	895.7	895.7	891.8
32.5°	865.8	861.9	855.3	851.4	846.5
35°	821.0	815.5	806.1	798.9	787.8
37.5°	772.9	766.2	754.6	736.4	721.4
40°	718.7	710.4	700.4	664.4	637.3
42.5°	660.6	658.9	641.8	580.3	542.7
45°	599.2	601.4	576.5	494.0	459.7
47.5°	537.2	544.9	499.6	418.8	401.1
50°	483.0	485.7	425.4	363.5	353.5
52.5°	427.1	422.7	362.9	319.8	312.6
55°	376.2	358.5	311.5	278.8	278.3
57.5°	331.4	298.7	266.1	241.8	244.5
60°	284.4	247.9	223.5	210.2	214.1
62.5°	242.9	208.0	186.4	182.6	189.2
65°	210.8	174.8	151.6	161.5	167.1
67.5°	180.4	149.9	123.4	147.2	149.4
70°	152.1	130.0	104.0	135.5	136.1
72.5°	128.9	115.1	90.2	122.8	124.5
75°	112.3	100.1	83.0	109.5	115.1
77.5°	98.5	85.8	76.9	94.6	104.0
80°	83.5	69.2	70.3	79.1	88.5
82.5°	64.2	53.7	55.9	65.3	71.9
85°	43.7	41.5	37.6	48.7	52.0
87.5°	23.2	22.1	19.4	27.7	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)