

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: P291182

Luminaire Tested: **14GR-LD5-20-A125-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291182
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2037.0 lumens
Efficiency: N/A
Efficacy: 130.4 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

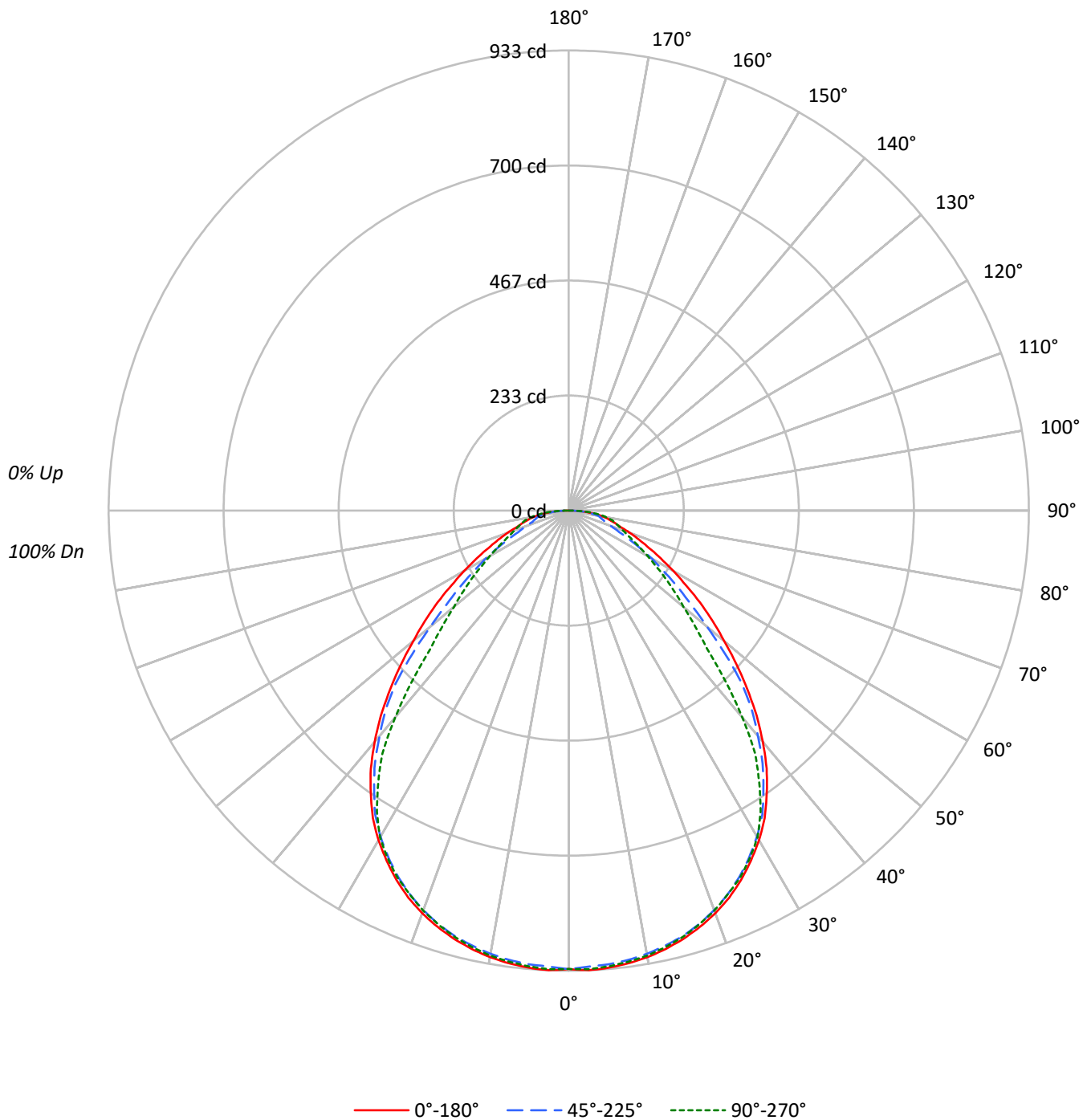
Input Watts (W): 15.624
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2501	2501	2501
5°	2514	2494	2506
10°	2513	2493	2504
15°	2504	2488	2492
20°	2487	2468	2471
25°	2454	2432	2439
30°	2398	2371	2377
35°	2299	2260	2212
40°	2150	2097	1924
45°	1946	1890	1509
50°	1721	1529	1272
55°	1523	1257	1122
60°	1315	1040	995
65°	1144	828	915
70°	1034	710	915
75°	993	742	1022
80°	1106	945	1193
85°	1167	1007	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	4.3
10°-20°	252.7	12.4
20°-30°	378.2	18.6
30°-40°	428.1	21.0
40°-50°	364.6	17.9
50°-60°	246.9	12.1
60°-70°	147.4	7.2
70°-80°	92.1	4.5
80°-90°	38.9	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°	719.0	35.3
0°-40°	1147.1	56.3
0°-60°	1758.6	86.3
0°-90°	2037.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	930	928	923	929	928	88
15°	899	896	893	899	895	254
25°	826	824	819	823	821	380
35°	700	696	688	681	673	436
45°	511	513	497	423	396	394
55°	325	307	268	239	239	290
65°	180	150	130	139	144	181
75°	96	86	71	94	98	103
85°	38	35	33	41	46	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.5	929.5	929.5	929.5	929.5
2.5°	932.9	930.5	925.3	931.4	930.5
5°	930.5	928.1	923.4	929.1	927.7
7.5°	925.8	923.4	919.2	924.8	922.5
10°	919.6	916.8	912.5	918.7	916.3
12.5°	910.2	907.3	903.6	909.7	906.4
15°	898.8	895.5	893.2	898.8	894.6
17.5°	885.1	882.3	879.0	884.7	879.9
20°	868.6	866.2	862.0	865.3	862.9
22.5°	849.7	846.4	842.1	845.9	842.6
25°	826.5	824.2	819.0	822.7	821.3
27.5°	800.1	798.6	792.5	797.2	794.9
30°	771.7	767.9	763.2	764.6	765.1
32.5°	739.1	734.4	730.6	727.3	724.0
35°	699.9	695.6	688.1	681.0	673.4
37.5°	659.2	653.6	646.0	630.4	621.0
40°	612.0	609.1	596.9	575.1	547.7
42.5°	563.8	560.9	550.1	501.4	471.6
45°	511.3	512.7	496.7	423.4	396.5
47.5°	461.2	465.0	430.0	361.5	347.3
50°	411.1	415.4	365.3	312.4	303.9
52.5°	367.2	363.9	311.4	274.1	270.3
55°	324.7	306.7	267.9	239.1	239.1
57.5°	281.2	255.7	227.8	209.3	209.3
60°	244.3	212.7	193.3	181.0	184.8
62.5°	210.3	176.7	160.2	157.8	162.6
65°	179.6	149.8	130.0	138.9	143.7
67.5°	154.5	128.1	106.8	125.7	128.5
70°	131.4	111.5	90.3	115.8	116.3
72.5°	110.1	98.3	77.5	104.9	106.8
75°	95.5	85.5	71.4	93.6	98.3
77.5°	83.6	73.2	65.7	80.8	89.8
80°	71.4	60.0	61.0	68.1	77.0
82.5°	54.8	46.3	48.2	55.8	62.9
85°	37.8	35.0	32.6	41.1	46.3
87.5°	20.3	18.9	16.5	23.2	23.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)