

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: P291289

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291289
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2089.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

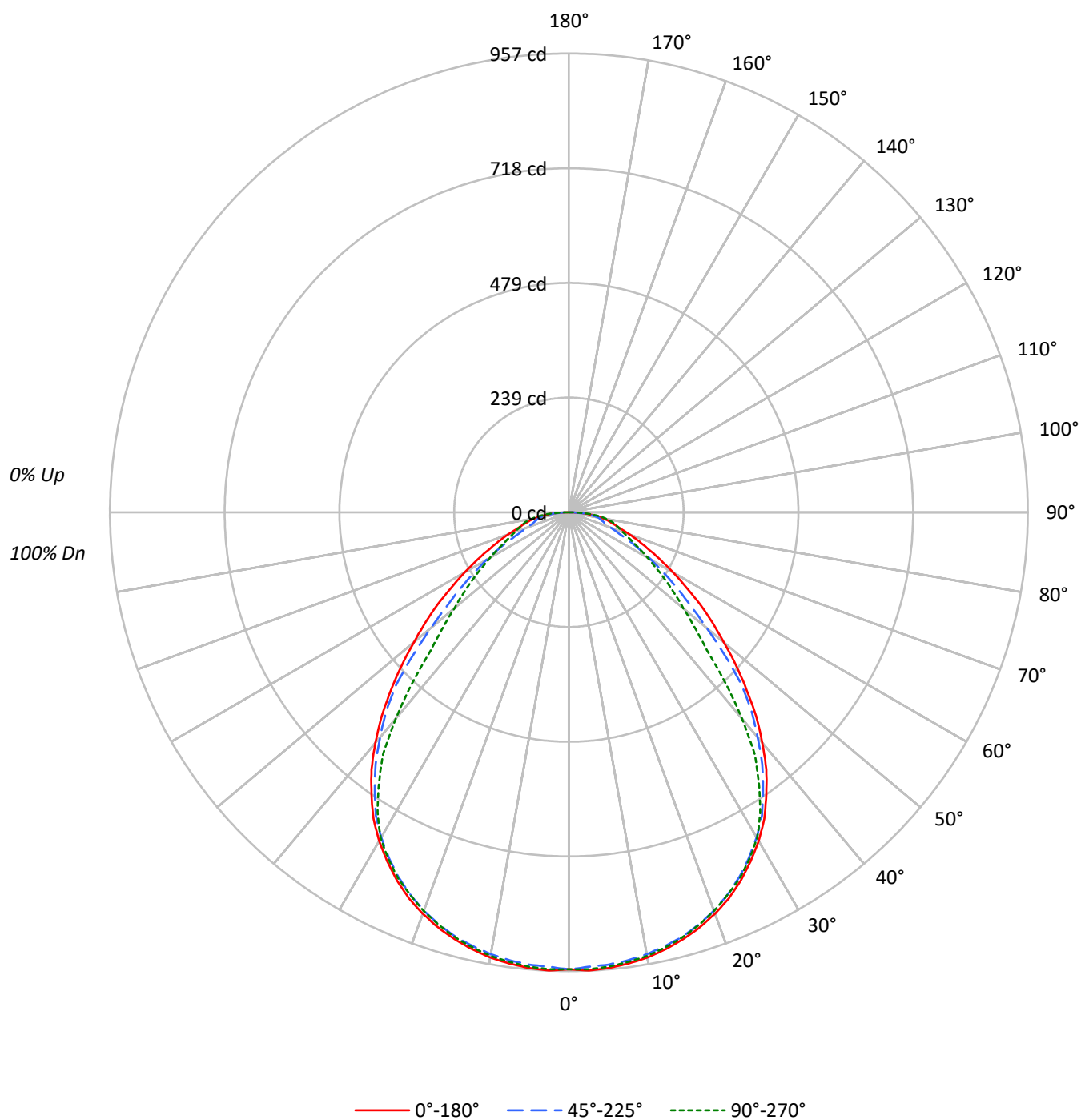
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2565	2565	2565
5°	2578	2558	2570
10°	2577	2557	2568
15°	2568	2552	2556
20°	2551	2531	2534
25°	2517	2494	2501
30°	2459	2432	2438
35°	2358	2318	2269
40°	2205	2150	1973
45°	1996	1939	1547
50°	1765	1568	1304
55°	1562	1289	1150
60°	1349	1067	1020
65°	1173	849	938
70°	1060	729	938
75°	1018	761	1048
80°	1134	969	1224
85°	1198	1031	1467



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.4	4.3
10°-20°	259.1	12.4
20°-30°	387.8	18.6
30°-40°	439.0	21.0
40°-50°	373.9	17.9
50°-60°	253.2	12.1
60°-70°	151.2	7.2
70°-80°	94.4	4.5
80°-90°	39.9	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°	737.4	35.3
0°-40°	1176.4	56.3
0°-60°	1803.5	86.3
0°-90°	2089.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	953	953	953	953	953	
5°	954	952	947	953	951	91
15°	922	918	916	922	917	260
25°	848	845	840	844	842	390
35°	718	713	706	698	691	447
45°	524	526	509	434	407	404
55°	333	314	275	245	245	298
65°	184	154	133	142	147	186
75°	98	88	73	96	101	106
85°	39	36	33	42	48	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.3	953.3	953.3	953.3	953.3
2.5°	956.7	954.2	948.9	955.2	954.2
5°	954.2	951.8	947.0	952.8	951.3
7.5°	949.4	947.0	942.6	948.4	946.0
10°	943.1	940.2	935.8	942.1	939.7
12.5°	933.4	930.5	926.6	932.9	929.5
15°	921.8	918.4	916.0	921.8	917.4
17.5°	907.7	904.8	901.4	907.2	902.4
20°	890.8	888.3	884.0	887.4	884.9
22.5°	871.4	868.0	863.6	867.5	864.1
25°	847.6	845.2	839.9	843.7	842.3
27.5°	820.5	819.0	812.7	817.6	815.2
30°	791.4	787.5	782.7	784.1	784.6
32.5°	758.0	753.1	749.2	745.9	742.5
35°	717.7	713.4	705.6	698.4	690.6
37.5°	676.1	670.2	662.5	646.5	636.8
40°	627.6	624.7	612.1	589.8	561.7
42.5°	578.2	575.3	564.1	514.2	483.7
45°	524.4	525.8	509.4	434.2	406.6
47.5°	473.0	476.9	441.0	370.7	356.2
50°	421.6	426.0	374.6	320.3	311.6
52.5°	376.6	373.2	319.4	281.1	277.2
55°	332.9	314.5	274.8	245.2	245.2
57.5°	288.4	262.2	233.6	214.7	214.7
60°	250.6	218.1	198.2	185.6	189.5
62.5°	215.7	181.3	164.3	161.9	166.7
65°	184.2	153.6	133.3	142.5	147.3
67.5°	158.5	131.3	109.5	128.9	131.8
70°	134.7	114.4	92.6	118.7	119.2
72.5°	112.9	100.8	79.5	107.6	109.5
75°	97.9	87.7	73.2	96.0	100.8
77.5°	85.8	75.1	67.4	82.9	92.1
80°	73.2	61.5	62.5	69.8	79.0
82.5°	56.2	47.5	49.4	57.2	64.5
85°	38.8	35.9	33.4	42.2	47.5
87.5°	20.8	19.4	17.0	23.7	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)