

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: P291291

Luminaire Tested: **14GR-LD5-24-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291291
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-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: 2212.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

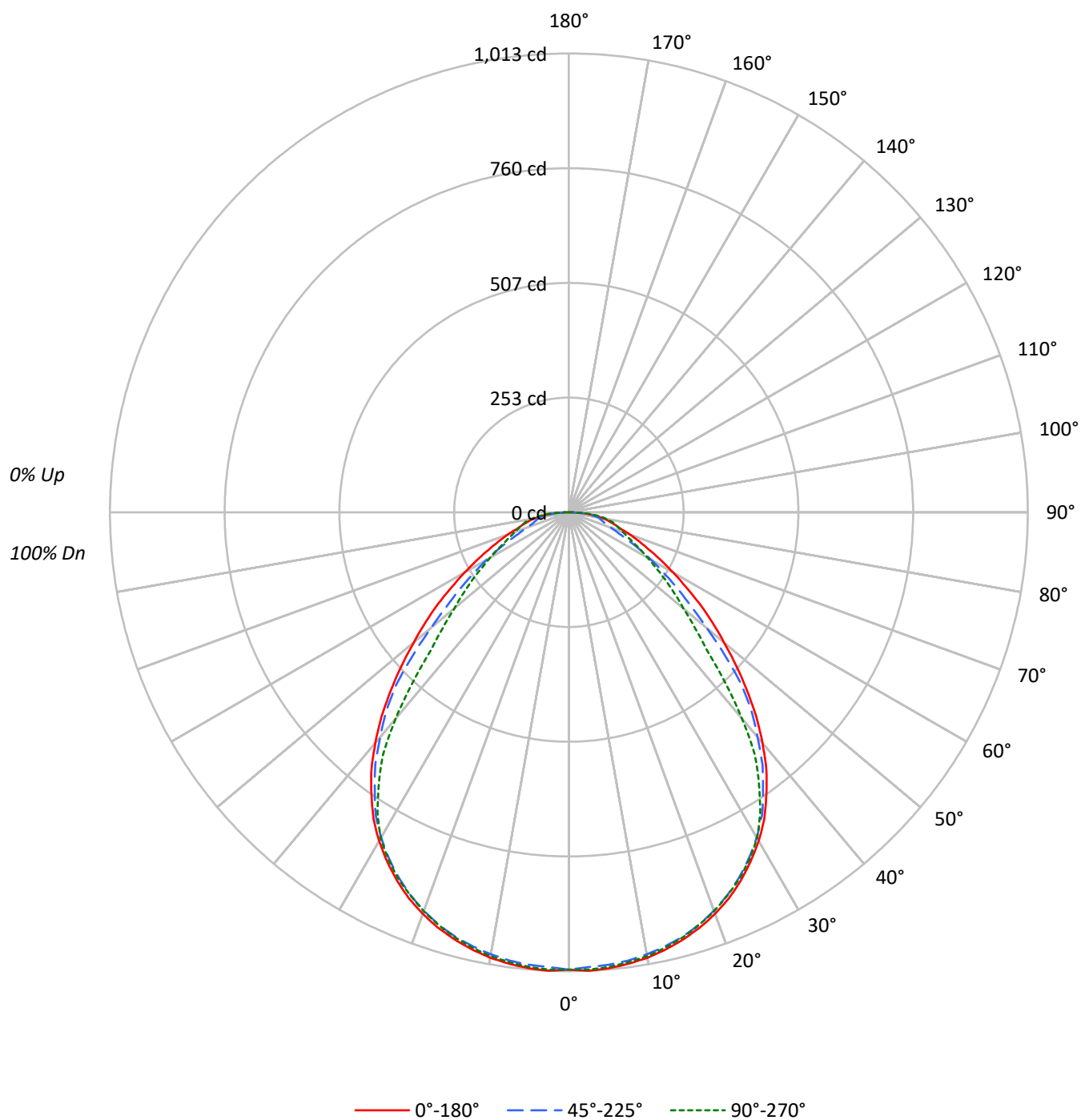
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2716	2716	2716
5°	2729	2709	2721
10°	2729	2708	2719
15°	2719	2702	2706
20°	2701	2680	2683
25°	2665	2640	2648
30°	2604	2575	2582
35°	2497	2455	2402
40°	2335	2277	2089
45°	2113	2052	1638
50°	1869	1661	1382
55°	1654	1365	1218
60°	1428	1130	1080
65°	1242	898	993
70°	1123	771	993
75°	1078	806	1109
80°	1201	1026	1296
85°	1269	1093	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	4.3
10°-20°	274.4	12.4
20°-30°	410.6	18.6
30°-40°	464.9	21.0
40°-50°	396.0	17.9
50°-60°	268.1	12.1
60°-70°	160.1	7.2
70°-80°	100.0	4.5
80°-90°	42.3	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°	780.8	35.3
0°-40°	1245.6	56.3
0°-60°	1909.7	86.3
0°-90°	2212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1010	1008	1003	1009	1007	96
15°	976	972	970	976	971	275
25°	898	895	889	893	892	413
35°	760	755	747	740	731	474
45°	555	557	539	460	430	428
55°	352	333	291	260	260	315
65°	195	163	141	151	156	197
75°	104	93	78	102	107	112
85°	41	38	35	45	50	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1009.4	1009.4	1009.4	1009.4	1009.4
2.5°	1013.0	1010.4	1004.8	1011.5	1010.4
5°	1010.4	1007.9	1002.7	1008.9	1007.4
7.5°	1005.3	1002.7	998.1	1004.3	1001.7
10°	998.6	995.5	990.9	997.6	995.0
12.5°	988.4	985.3	981.2	987.9	984.3
15°	976.0	972.5	969.9	976.0	971.4
17.5°	961.2	958.1	954.5	960.7	955.5
20°	943.2	940.6	936.0	939.6	937.0
22.5°	922.7	919.1	914.5	918.6	915.0
25°	897.5	895.0	889.3	893.4	891.9
27.5°	868.8	867.3	860.6	865.7	863.2
30°	838.0	833.9	828.8	830.3	830.8
32.5°	802.6	797.5	793.4	789.8	786.2
35°	760.0	755.4	747.2	739.5	731.3
37.5°	715.9	709.7	701.5	684.6	674.3
40°	664.6	661.5	648.1	624.5	594.8
42.5°	612.2	609.1	597.3	544.5	512.1
45°	555.2	556.8	539.3	459.8	430.5
47.5°	500.9	505.0	467.0	392.6	377.2
50°	446.5	451.1	396.7	339.2	330.0
52.5°	398.7	395.1	338.2	297.6	293.5
55°	352.5	333.0	291.0	259.7	259.7
57.5°	305.3	277.6	247.3	227.3	227.3
60°	265.3	230.9	209.9	196.5	200.6
62.5°	228.4	191.9	174.0	171.4	176.5
65°	195.0	162.7	141.1	150.9	156.0
67.5°	167.8	139.1	116.0	136.5	139.6
70°	142.7	121.1	98.0	125.7	126.2
72.5°	119.6	106.7	84.2	113.9	116.0
75°	103.7	92.9	77.5	101.6	106.7
77.5°	90.8	79.5	71.3	87.8	97.5
80°	77.5	65.2	66.2	73.9	83.6
82.5°	59.5	50.3	52.3	60.6	68.3
85°	41.1	38.0	35.4	44.6	50.3
87.5°	22.1	20.5	18.0	25.1	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)