

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: P291095

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291095
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-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2210.0 lumens
Efficiency: N/A
Efficacy: 118.8 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

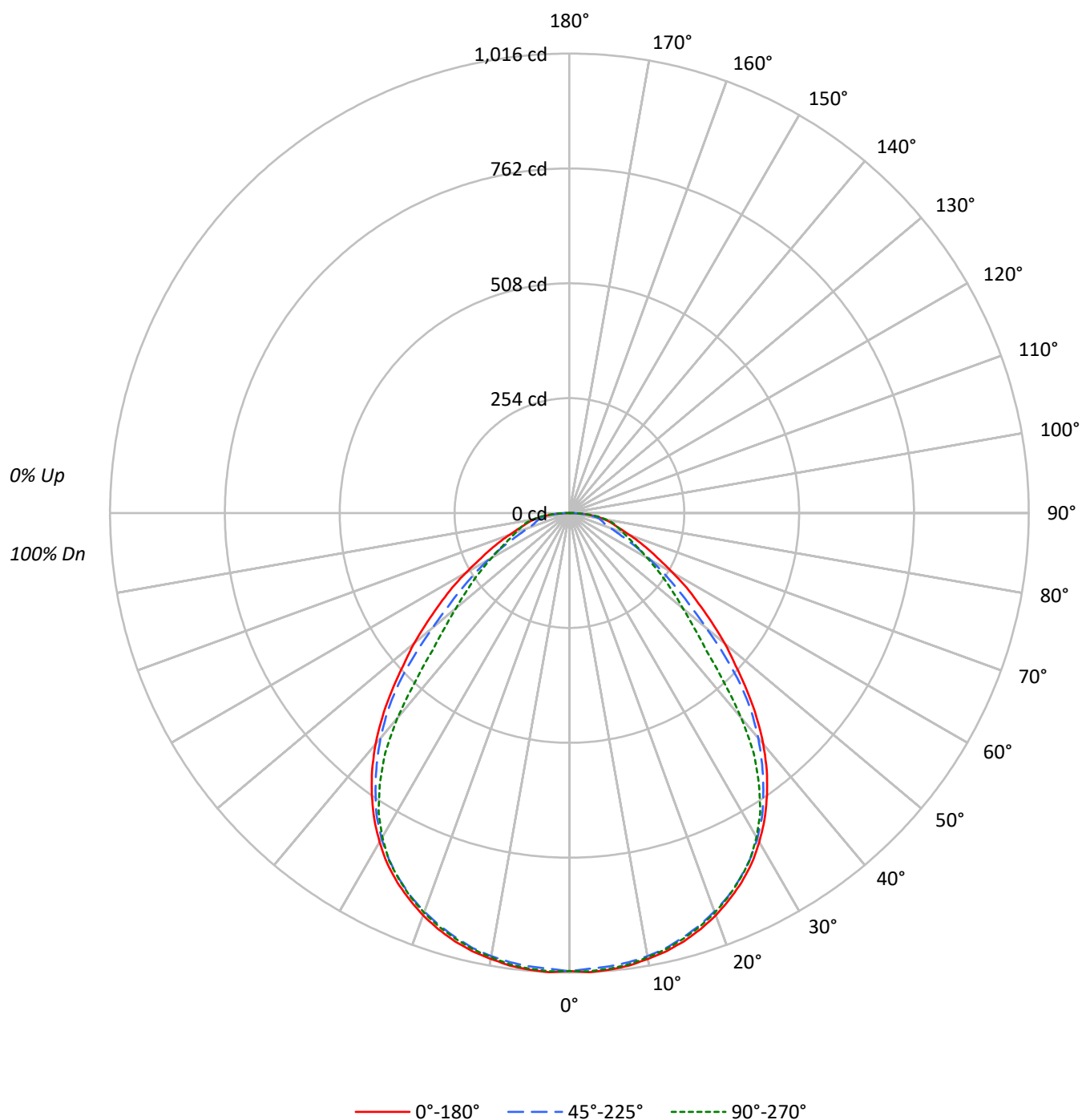
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	73	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°	2725	2725	2725
5°	2738	2717	2732
10°	2735	2718	2725
15°	2730	2705	2714
20°	2710	2686	2693
25°	2675	2649	2650
30°	2609	2582	2571
35°	2502	2457	2401
40°	2342	2283	2077
45°	2116	2035	1623
50°	1876	1652	1373
55°	1637	1356	1211
60°	1420	1116	1069
65°	1245	895	987
70°	1111	759	994
75°	1083	801	1110
80°	1201	1010	1272
85°	1250	1078	1488



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	4.3
10°-20°	275.3	12.5
20°-30°	411.8	18.6
30°-40°	464.8	21.0
40°-50°	394.3	17.8
50°-60°	266.8	12.1
60°-70°	159.3	7.2
70°-80°	99.7	4.5
80°-90°	42.0	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°	783.1	35.4
0°-40°	1247.9	56.5
0°-60°	1909.0	86.4
0°-90°	2210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1013	1013	1013	1013	1013	
5°	1014	1011	1006	1013	1011	96
15°	980	978	971	978	974	276
25°	901	898	892	896	893	414
35°	762	757	748	741	731	475
45°	556	558	535	458	426	428
55°	349	333	289	259	258	314
65°	196	162	141	150	155	195
75°	104	93	77	102	107	112
85°	40	38	35	45	48	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.7	1012.7	1012.7	1012.7	1012.7
2.5°	1016.3	1013.2	1008.6	1014.8	1014.3
5°	1013.7	1010.7	1006.0	1013.2	1011.2
7.5°	1009.1	1006.6	1001.9	1008.6	1006.6
10°	1000.9	998.9	994.8	1000.4	997.3
12.5°	992.2	990.6	985.5	990.6	987.6
15°	979.9	977.8	971.1	977.8	974.2
17.5°	964.5	961.9	956.3	961.9	958.8
20°	946.5	943.4	937.8	943.4	940.3
22.5°	924.9	922.4	917.2	922.4	918.3
25°	900.8	897.7	892.1	896.2	892.6
27.5°	873.1	869.0	863.9	866.9	864.9
30°	839.7	834.6	831.0	831.0	827.4
32.5°	803.3	799.7	793.5	790.0	785.3
35°	761.7	756.6	747.9	741.2	730.9
37.5°	717.1	710.9	700.1	683.2	669.3
40°	666.8	659.1	649.8	616.5	591.3
42.5°	612.9	611.3	595.4	538.4	503.5
45°	555.9	557.9	534.8	458.4	426.5
47.5°	498.4	505.6	463.5	388.6	372.1
50°	448.1	450.7	394.7	337.2	328.0
52.5°	396.3	392.2	336.7	296.7	290.0
55°	349.0	332.6	289.0	258.7	258.2
57.5°	307.5	277.2	246.9	224.3	226.9
60°	263.8	230.0	207.4	195.0	198.6
62.5°	225.3	193.0	173.0	169.4	175.5
65°	195.6	162.2	140.6	149.9	155.0
67.5°	167.3	139.1	114.5	136.5	138.6
70°	141.2	120.6	96.5	125.8	126.3
72.5°	119.6	106.8	83.7	114.0	115.5
75°	104.2	92.9	77.0	101.6	106.8
77.5°	91.4	79.6	71.3	87.8	96.5
80°	77.5	64.2	65.2	73.4	82.1
82.5°	59.5	49.8	51.8	60.6	66.7
85°	40.5	38.5	34.9	45.2	48.2
87.5°	21.6	20.5	18.0	25.7	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)