

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: P291190

Luminaire Tested: **14GR-LD5-24-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291190
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.0 lumens
Efficiency: N/A
Efficacy: 127.1 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

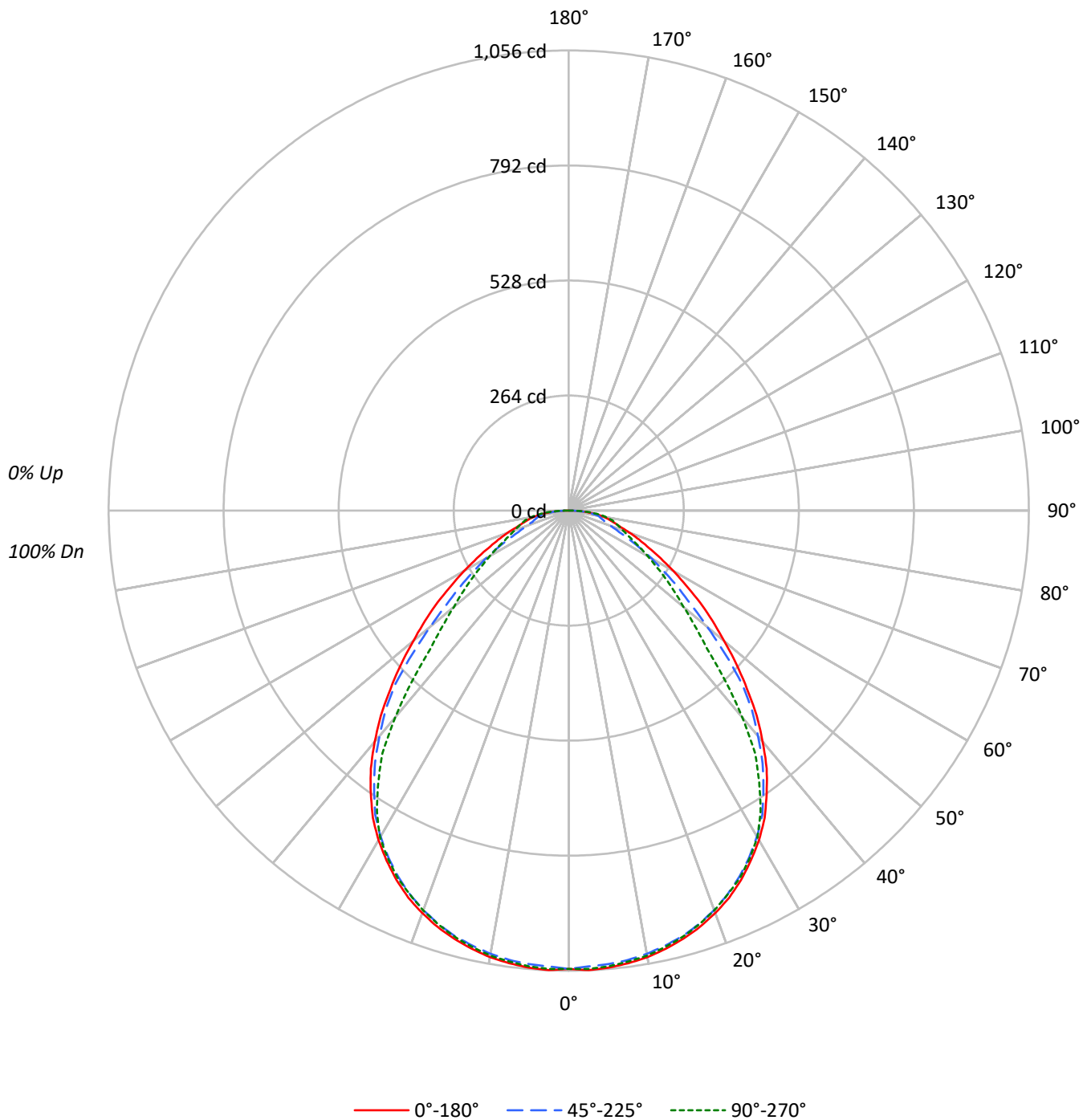
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	82	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	70	91	82	75	70		79	73	69		77	72	67		74	70	66
4	86	75	67	61	84	74	66	61		71	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	56	48	43	67	56	48	42		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	42	38		48	42	38
9	60	48	40	35	59	47	40	35		46	39	35		45	39	34		44	38	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	35	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2830	2830	2830
5°	2844	2823	2836
10°	2843	2822	2833
15°	2834	2816	2820
20°	2815	2793	2796
25°	2777	2752	2760
30°	2713	2683	2690
35°	2602	2558	2503
40°	2433	2373	2177
45°	2202	2139	1708
50°	1948	1731	1439
55°	1724	1422	1270
60°	1488	1177	1125
65°	1294	937	1035
70°	1170	803	1035
75°	1123	839	1156
80°	1251	1069	1351
85°	1321	1139	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	4.3
10°-20°	285.9	12.4
20°-30°	427.9	18.6
30°-40°	484.4	21.0
40°-50°	412.6	17.9
50°-60°	279.4	12.1
60°-70°	166.8	7.2
70°-80°	104.2	4.5
80°-90°	44.0	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°	813.6	35.3
0°-40°	1298.0	56.3
0°-60°	1990.0	86.3
0°-90°	2305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1052	1052	1052	1052	1052	
5°	1053	1050	1045	1051	1050	100
15°	1017	1013	1011	1017	1012	287
25°	935	933	927	931	929	430
35°	792	787	779	771	762	494
45°	579	580	562	479	449	446
55°	367	347	303	271	271	329
65°	203	170	147	157	163	205
75°	108	97	81	106	111	117
85°	43	40	37	46	52	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051.8	1051.8	1051.8	1051.8	1051.8
2.5°	1055.6	1052.9	1047.0	1054.0	1052.9
5°	1052.9	1050.2	1044.9	1051.3	1049.7
7.5°	1047.6	1044.9	1040.1	1046.5	1043.8
10°	1040.6	1037.4	1032.6	1039.5	1036.9
12.5°	1029.9	1026.7	1022.4	1029.4	1025.6
15°	1017.1	1013.3	1010.7	1017.1	1012.3
17.5°	1001.6	998.4	994.6	1001.0	995.7
20°	982.9	980.2	975.4	979.1	976.4
22.5°	961.5	957.7	952.9	957.2	953.5
25°	935.3	932.6	926.7	931.0	929.4
27.5°	905.3	903.7	896.8	902.1	899.4
30°	873.2	869.0	863.6	865.2	865.8
32.5°	836.3	831.0	826.7	823.0	819.2
35°	792.0	787.1	778.6	770.6	762.0
37.5°	746.0	739.6	731.0	713.4	702.7
40°	692.5	689.3	675.4	650.8	619.8
42.5°	638.0	634.7	622.4	567.4	533.7
45°	578.6	580.2	562.0	479.1	448.7
47.5°	521.9	526.2	486.6	409.1	393.0
50°	465.2	470.0	413.4	353.5	343.8
52.5°	415.5	411.8	352.4	310.2	305.9
55°	367.4	347.0	303.2	270.6	270.6
57.5°	318.2	289.3	257.7	236.9	236.9
60°	276.5	240.6	218.7	204.8	209.1
62.5°	238.0	200.0	181.3	178.6	184.0
65°	203.2	169.5	147.1	157.2	162.6
67.5°	174.9	144.9	120.9	142.2	145.5
70°	148.7	126.2	102.1	131.0	131.5
72.5°	124.6	111.2	87.7	118.7	120.9
75°	108.0	96.8	80.7	105.9	111.2
77.5°	94.6	82.9	74.3	91.4	101.6
80°	80.7	67.9	69.0	77.0	87.2
82.5°	62.0	52.4	54.5	63.1	71.1
85°	42.8	39.6	36.9	46.5	52.4
87.5°	23.0	21.4	18.7	26.2	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)