

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: P290954

Luminaire Tested: **14GR-LD5-24-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290954
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A 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: 126.5 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

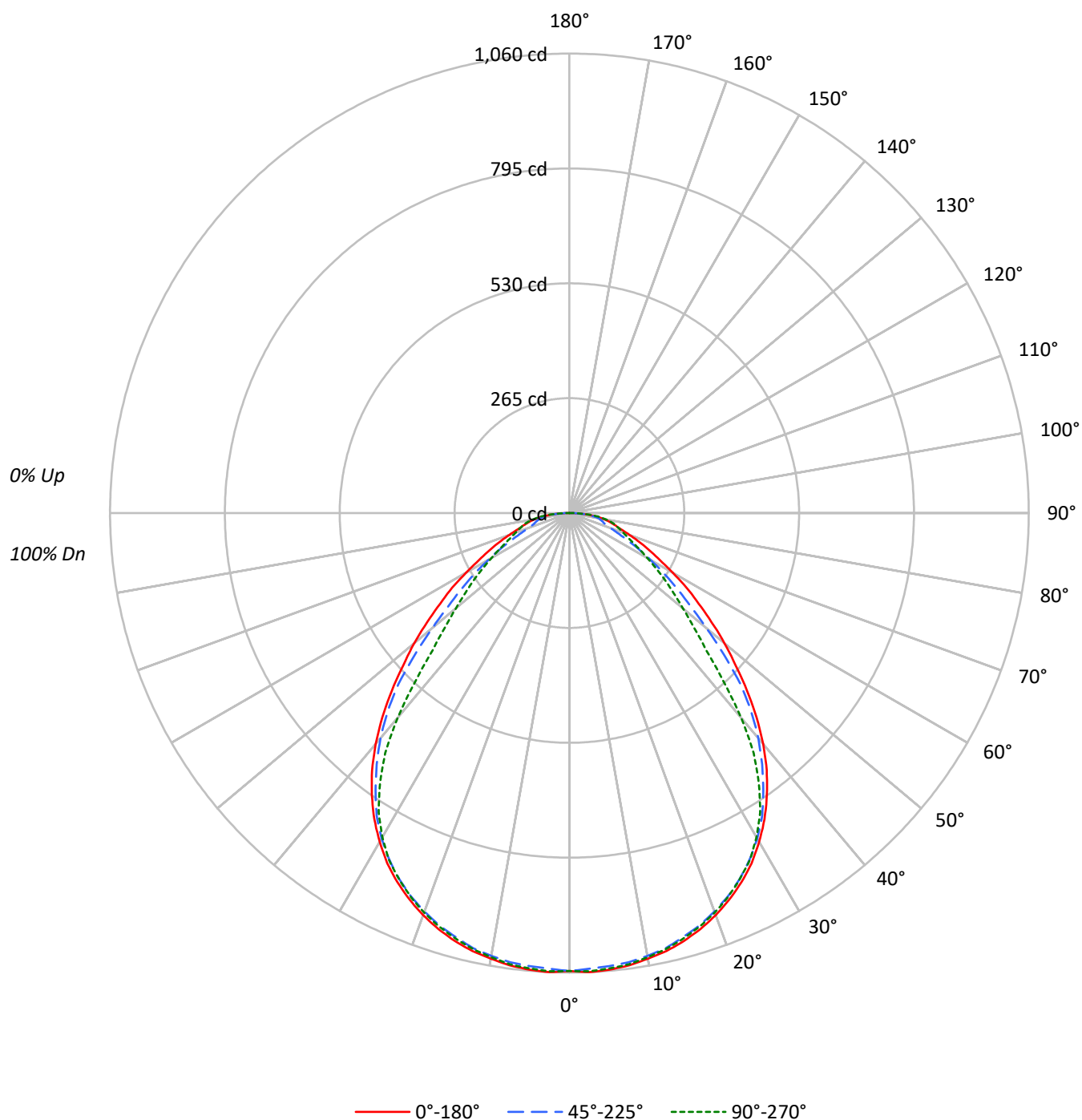
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	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	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2842	2842	2842
5°	2856	2834	2849
10°	2852	2835	2842
15°	2847	2822	2831
20°	2827	2801	2809
25°	2790	2763	2764
30°	2721	2693	2682
35°	2610	2562	2504
40°	2443	2381	2166
45°	2206	2123	1693
50°	1957	1724	1432
55°	1708	1414	1263
60°	1481	1164	1115
65°	1299	934	1030
70°	1158	792	1036
75°	1130	835	1158
80°	1252	1054	1328
85°	1306	1124	1553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	4.3
10°-20°	287.1	12.5
20°-30°	429.5	18.6
30°-40°	484.8	21.0
40°-50°	411.3	17.8
50°-60°	278.3	12.1
60°-70°	166.1	7.2
70°-80°	104.0	4.5
80°-90°	43.8	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°	816.8	35.4
0°-40°	1301.6	56.5
0°-60°	1991.1	86.4
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°	1056	1056	1056	1056	1056	
5°	1057	1054	1049	1057	1055	101
15°	1022	1020	1013	1020	1016	288
25°	940	936	930	935	931	432
35°	794	789	780	773	762	495
45°	580	582	558	478	445	447
55°	364	347	301	270	269	328
65°	204	169	147	156	162	204
75°	109	97	80	106	111	117
85°	42	40	36	47	50	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1060.0	1056.8	1052.0	1058.4	1057.9
5°	1057.3	1054.1	1049.3	1056.8	1054.6
7.5°	1052.5	1049.8	1045.0	1052.0	1049.8
10°	1043.9	1041.8	1037.5	1043.4	1040.2
12.5°	1034.8	1033.2	1027.9	1033.2	1030.0
15°	1022.0	1019.8	1012.9	1019.8	1016.1
17.5°	1005.9	1003.3	997.4	1003.3	1000.0
20°	987.2	984.0	978.1	984.0	980.8
22.5°	964.7	962.0	956.7	962.0	957.7
25°	939.5	936.3	930.4	934.7	931.0
27.5°	910.6	906.4	901.0	904.2	902.1
30°	875.8	870.5	866.7	866.7	863.0
32.5°	837.8	834.1	827.7	823.9	819.1
35°	794.5	789.1	780.0	773.1	762.3
37.5°	747.9	741.5	730.2	712.6	698.1
40°	695.4	687.4	677.8	643.0	616.7
42.5°	639.2	637.6	621.0	561.6	525.2
45°	579.8	581.9	557.8	478.1	444.9
47.5°	519.8	527.3	483.4	405.3	388.1
50°	467.4	470.0	411.7	351.7	342.1
52.5°	413.3	409.0	351.2	309.4	302.5
55°	364.0	346.9	301.4	269.8	269.3
57.5°	320.7	289.1	257.5	233.9	236.6
60°	275.2	239.8	216.3	203.4	207.2
62.5°	235.0	201.3	180.4	176.7	183.1
65°	204.0	169.2	146.7	156.3	161.7
67.5°	174.5	145.1	119.4	142.4	144.5
70°	147.2	125.8	100.6	131.2	131.7
72.5°	124.7	111.4	87.3	118.8	120.5
75°	108.7	96.9	80.3	106.0	111.4
77.5°	95.3	83.0	74.4	91.5	100.6
80°	80.8	66.9	68.0	76.6	85.7
82.5°	62.1	51.9	54.1	63.2	69.6
85°	42.3	40.2	36.4	47.1	50.3
87.5°	22.5	21.4	18.7	26.8	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)