

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: P293797

Luminaire Tested: **24GR-LD5-34-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-A125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2973.0 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

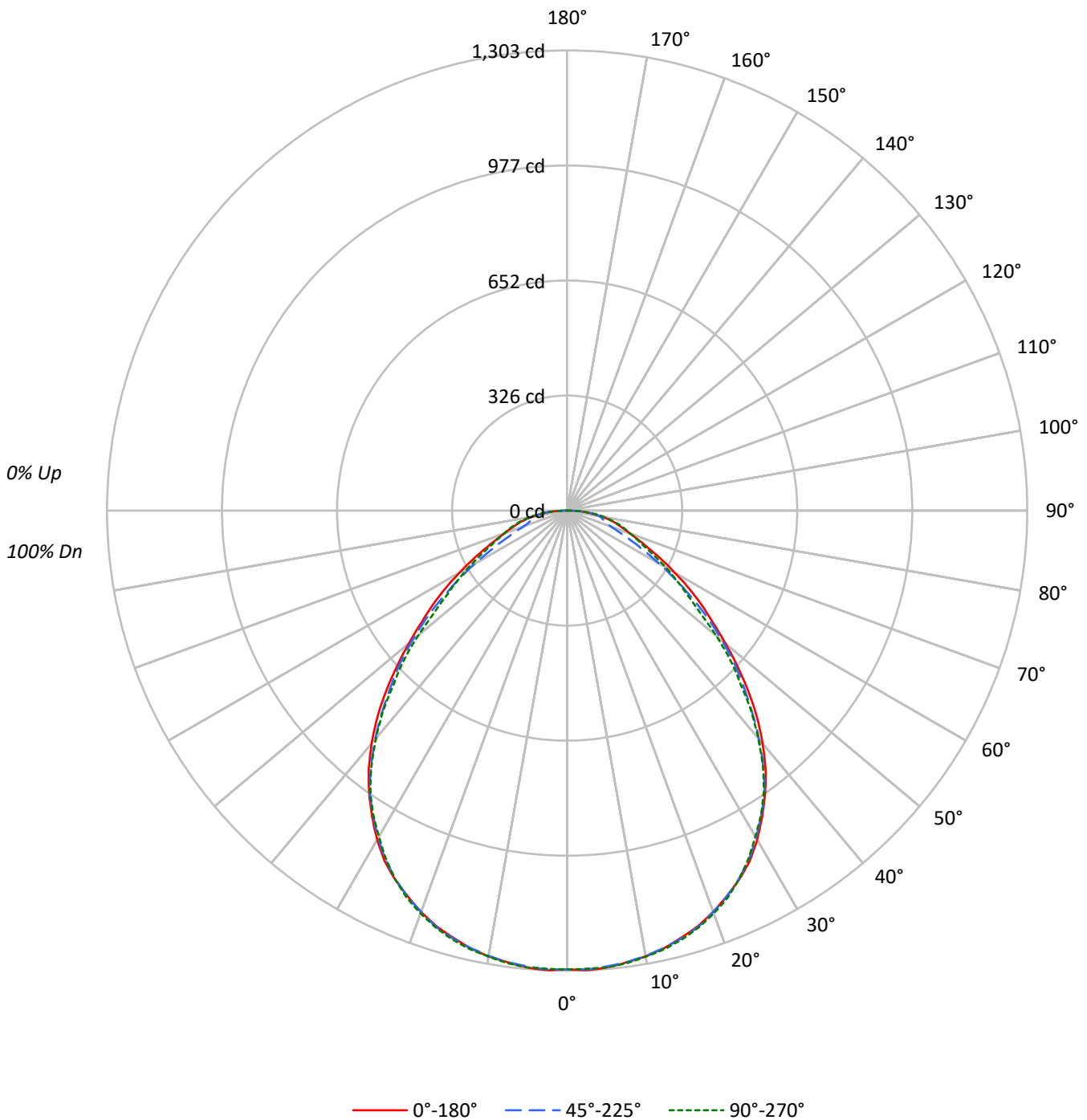
Input Watts (W): 23.407449
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1748	1748	1748
5°	1754	1750	1753
10°	1751	1749	1752
15°	1743	1746	1751
20°	1731	1731	1738
25°	1712	1708	1710
30°	1672	1663	1655
35°	1606	1601	1595
40°	1513	1485	1479
45°	1384	1346	1321
50°	1223	1199	1152
55°	1088	1014	975
60°	947	811	870
65°	818	629	769
70°	746	515	744
75°	752	555	791
80°	783	722	834
85°	817	860	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	4.1
10°-20°	353.4	11.9
20°-30°	529.0	17.8
30°-40°	604.5	20.3
40°-50°	546.5	18.4
50°-60°	393.2	13.2
60°-70°	228.0	7.7
70°-80°	135.2	4.5
80°-90°	59.9	2.0
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°	1005.7	33.8
0°-40°	1610.2	54.2
0°-60°	2549.9	85.8
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1299	1297	1296	1294	1298	123
15°	1251	1254	1254	1252	1257	353
25°	1153	1152	1151	1148	1152	530
35°	978	973	975	963	971	610
45°	727	715	707	701	694	559
55°	464	455	432	421	416	415
65°	257	228	198	221	242	259
75°	145	121	107	132	152	153
85°	53	57	56	64	60	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.1	1299.1	1299.1	1299.1	1299.1
2.5°	1302.8	1298.2	1300.5	1299.1	1298.6
5°	1298.6	1296.8	1295.9	1294.0	1298.2
7.5°	1290.3	1288.9	1289.4	1289.8	1292.6
10°	1281.9	1279.6	1280.1	1281.0	1282.4
12.5°	1269.0	1267.6	1268.0	1269.0	1272.2
15°	1251.3	1253.6	1253.6	1252.3	1256.9
17.5°	1233.7	1233.2	1235.6	1231.4	1237.9
20°	1209.1	1209.6	1209.1	1209.6	1213.8
22.5°	1181.3	1183.6	1182.2	1182.2	1186.9
25°	1153.0	1151.6	1150.7	1148.4	1151.6
27.5°	1119.1	1116.4	1114.0	1109.4	1111.7
30°	1076.0	1076.5	1070.4	1066.3	1065.3
32.5°	1027.8	1027.8	1022.2	1019.0	1021.7
35°	977.7	973.0	974.9	962.8	971.2
37.5°	923.4	916.0	911.8	907.7	910.4
40°	861.3	851.5	845.5	837.2	841.8
42.5°	795.9	783.8	776.4	770.4	772.2
45°	727.2	714.7	707.3	700.8	694.3
47.5°	654.9	647.0	643.3	634.9	627.5
50°	584.4	581.6	572.8	565.8	550.5
52.5°	519.9	517.6	503.7	492.1	472.6
55°	463.8	455.0	432.3	421.1	415.6
57.5°	406.8	392.4	365.0	363.6	367.3
60°	352.0	334.4	301.5	308.9	323.3
62.5°	302.4	276.0	244.4	262.0	279.2
65°	256.9	228.2	197.6	220.8	241.6
67.5°	219.4	190.6	159.1	190.2	214.3
70°	189.7	160.5	130.8	166.5	189.2
72.5°	165.1	138.7	114.1	148.0	171.6
75°	144.7	121.1	106.7	131.7	152.1
77.5°	124.3	105.3	102.0	117.3	129.9
80°	101.1	92.3	93.2	103.0	107.6
82.5°	75.6	76.1	78.4	86.3	84.4
85°	52.9	57.0	55.7	64.0	59.8
87.5°	29.2	32.0	30.1	36.6	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)