

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: P293666

Luminaire Tested: **24GR-LD5-30-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293666  
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-LD5-30-A125-UNV-L83050-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3054.0 lumens  
Efficiency: N/A  
Efficacy: 152.7 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

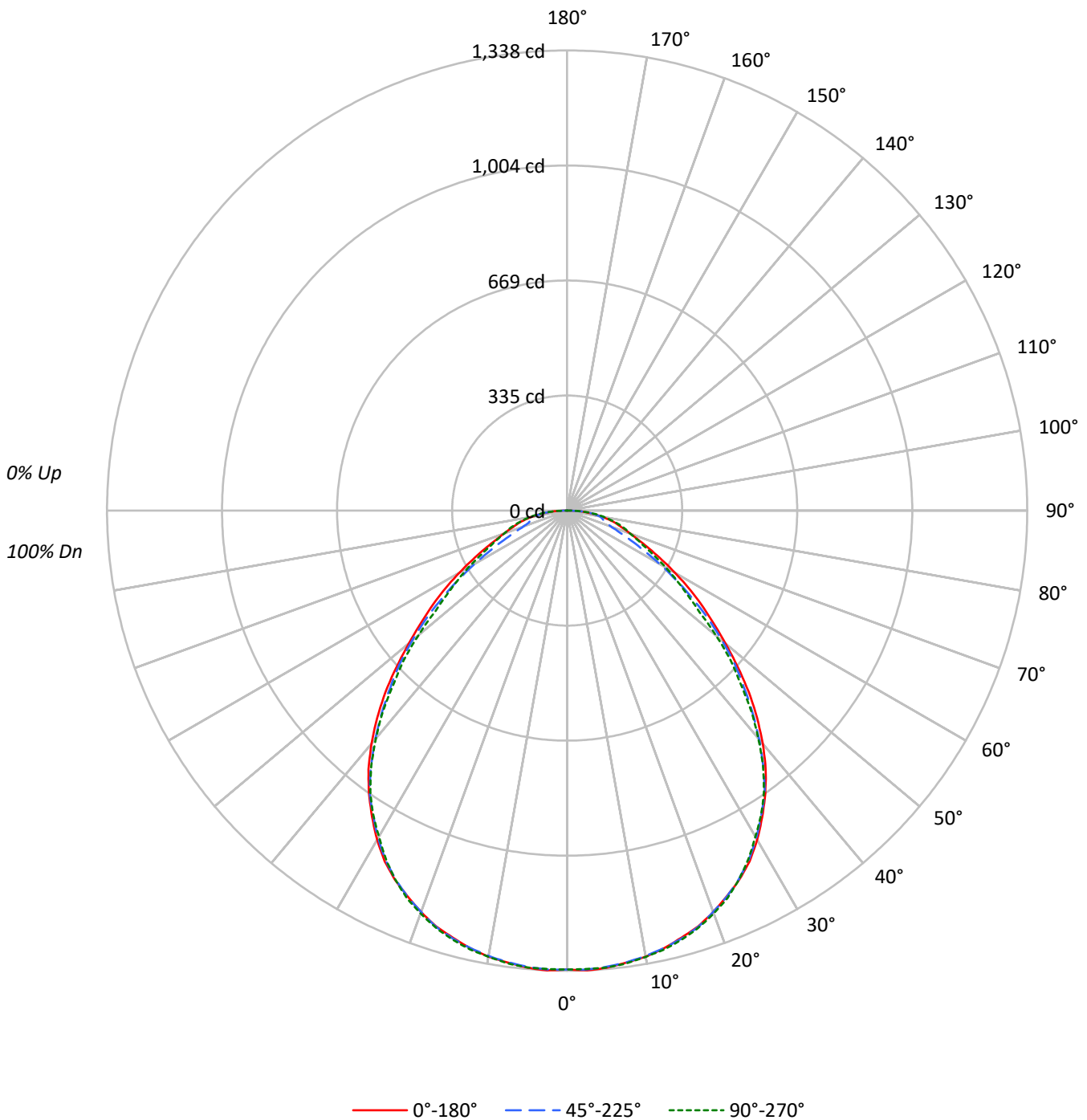
Input Watts (W): 19.995  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1796	1796	1796
5°	1802	1798	1801
10°	1799	1797	1800
15°	1791	1794	1798
20°	1778	1778	1785
25°	1758	1755	1756
30°	1717	1708	1700
35°	1650	1645	1639
40°	1554	1525	1519
45°	1421	1383	1357
50°	1257	1232	1184
55°	1118	1042	1001
60°	973	833	894
65°	840	646	790
70°	767	529	765
75°	773	570	813
80°	805	742	856
85°	838	883	949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.6	4.1
10°-20°	363.1	11.9
20°-30°	543.4	17.8
30°-40°	621.0	20.3
40°-50°	561.4	18.4
50°-60°	403.9	13.2
60°-70°	234.2	7.7
70°-80°	138.9	4.5
80°-90°	61.5	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°	1033.1	33.8
0°-40°	1654.1	54.2
0°-60°	2619.4	85.8
0°-90°	3054.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3054.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1334	1332	1331	1329	1334	127
15°	1285	1288	1288	1286	1291	363
25°	1184	1183	1182	1180	1183	545
35°	1004	1000	1002	989	998	626
45°	747	734	727	720	713	574
55°	476	467	444	433	427	426
65°	264	234	203	227	248	266
75°	149	124	110	135	156	157
85°	54	59	57	66	62	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1334.5	1334.5	1334.5	1334.5	1334.5
2.5°	1338.3	1333.5	1335.9	1334.5	1334.0
5°	1334.0	1332.1	1331.2	1329.3	1333.5
7.5°	1325.4	1324.0	1324.5	1325.0	1327.8
10°	1316.9	1314.5	1315.0	1315.9	1317.3
12.5°	1303.5	1302.1	1302.6	1303.5	1306.9
15°	1285.4	1287.8	1287.8	1286.4	1291.1
17.5°	1267.3	1266.8	1269.2	1264.9	1271.6
20°	1242.1	1242.5	1242.1	1242.5	1246.8
22.5°	1213.5	1215.9	1214.4	1214.4	1219.2
25°	1184.4	1183.0	1182.0	1179.7	1183.0
27.5°	1149.6	1146.8	1144.4	1139.6	1142.0
30°	1105.3	1105.8	1099.6	1095.3	1094.4
32.5°	1055.8	1055.8	1050.1	1046.7	1049.6
35°	1004.3	999.6	1001.5	989.1	997.7
37.5°	948.6	941.0	936.7	932.4	935.2
40°	884.7	874.7	868.5	860.0	864.7
42.5°	817.6	805.2	797.6	791.4	793.3
45°	747.0	734.2	726.6	719.9	713.2
47.5°	672.7	664.6	660.8	652.2	644.6
50°	600.3	597.4	588.4	581.2	565.5
52.5°	534.1	531.7	517.4	505.5	485.5
55°	476.4	467.4	444.0	432.6	426.9
57.5°	417.8	403.1	375.0	373.5	377.3
60°	361.6	343.5	309.7	317.3	332.1
62.5°	310.6	283.5	251.1	269.2	286.8
65°	263.9	234.4	203.0	226.8	248.2
67.5°	225.4	195.8	163.4	195.3	220.1
70°	194.9	164.8	134.4	171.0	194.4
72.5°	169.6	142.5	117.2	152.0	176.3
75°	148.6	124.3	109.6	135.3	156.3
77.5°	127.7	108.2	104.8	120.5	133.4
80°	103.9	94.8	95.8	105.8	110.5
82.5°	77.7	78.1	80.5	88.6	86.7
85°	54.3	58.6	57.2	65.7	61.5
87.5°	30.0	32.9	31.0	37.6	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)