

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: P293847

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293847  
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-L92765-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: 2992.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

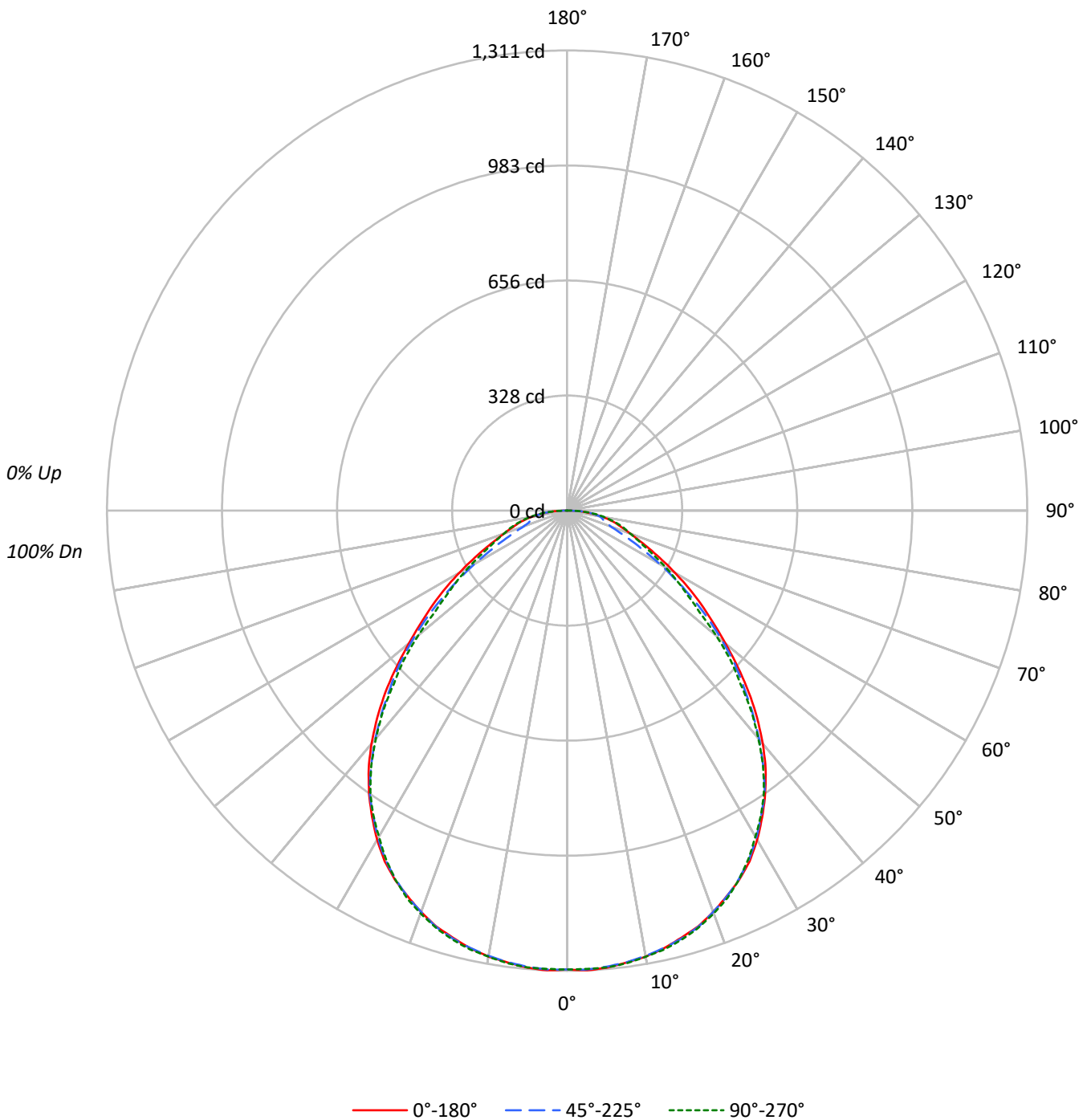
Input Watts (W): 23.064  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1759	1759	1759
5°	1765	1761	1765
10°	1763	1760	1763
15°	1754	1757	1762
20°	1742	1742	1749
25°	1723	1719	1721
30°	1682	1674	1666
35°	1616	1611	1605
40°	1522	1495	1488
45°	1393	1354	1329
50°	1231	1207	1160
55°	1095	1020	981
60°	953	816	875
65°	823	633	774
70°	751	518	749
75°	757	558	796
80°	789	727	839
85°	821	865	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	4.1
10°-20°	355.7	11.9
20°-30°	532.4	17.8
30°-40°	608.4	20.3
40°-50°	550.0	18.4
50°-60°	395.7	13.2
60°-70°	229.4	7.7
70°-80°	136.1	4.5
80°-90°	60.3	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°	1012.1	33.8
0°-40°	1620.5	54.2
0°-60°	2566.2	85.8
0°-90°	2992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1307	1305	1304	1302	1306	124
15°	1259	1262	1262	1260	1265	356
25°	1160	1159	1158	1156	1159	533
35°	984	979	981	969	977	613
45°	732	719	712	705	699	562
55°	467	458	435	424	418	418
65°	259	230	199	222	243	261
75°	146	122	107	133	153	154
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°	1307.4	1307.4	1307.4	1307.4	1307.4
2.5°	1311.1	1306.5	1308.8	1307.4	1306.9
5°	1306.9	1305.1	1304.1	1302.3	1306.5
7.5°	1298.5	1297.1	1297.6	1298.1	1300.9
10°	1290.1	1287.8	1288.3	1289.2	1290.6
12.5°	1277.1	1275.7	1276.1	1277.1	1280.3
15°	1259.3	1261.7	1261.7	1260.3	1264.9
17.5°	1241.6	1241.1	1243.5	1239.3	1245.8
20°	1216.8	1217.3	1216.8	1217.3	1221.5
22.5°	1188.8	1191.2	1189.8	1189.8	1194.4
25°	1160.4	1159.0	1158.0	1155.7	1159.0
27.5°	1126.3	1123.5	1121.2	1116.5	1118.8
30°	1082.9	1083.4	1077.3	1073.1	1072.2
32.5°	1034.3	1034.3	1028.7	1025.5	1028.3
35°	983.9	979.3	981.1	969.0	977.4
37.5°	929.3	921.9	917.7	913.5	916.3
40°	866.8	857.0	850.9	842.5	847.2
42.5°	801.0	788.8	781.4	775.3	777.2
45°	731.9	719.3	711.8	705.3	698.7
47.5°	659.1	651.1	647.4	639.0	631.5
50°	588.1	585.3	576.5	569.4	554.0
52.5°	523.2	520.9	506.9	495.2	475.6
55°	466.8	457.9	435.0	423.8	418.2
57.5°	409.4	394.9	367.3	365.9	369.7
60°	354.3	336.5	303.4	310.9	325.3
62.5°	304.3	277.7	246.0	263.7	281.0
65°	258.6	229.6	198.8	222.2	243.2
67.5°	220.8	191.8	160.1	191.4	215.6
70°	190.9	161.5	131.6	167.6	190.4
72.5°	166.2	139.6	114.8	148.9	172.7
75°	145.6	121.8	107.4	132.6	153.1
77.5°	125.1	106.0	102.7	118.1	130.7
80°	101.8	92.9	93.8	103.6	108.3
82.5°	76.1	76.5	78.9	86.8	85.0
85°	53.2	57.4	56.0	64.4	60.2
87.5°	29.4	32.2	30.3	36.9	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)