

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: P293852

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293852  
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-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3297.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 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

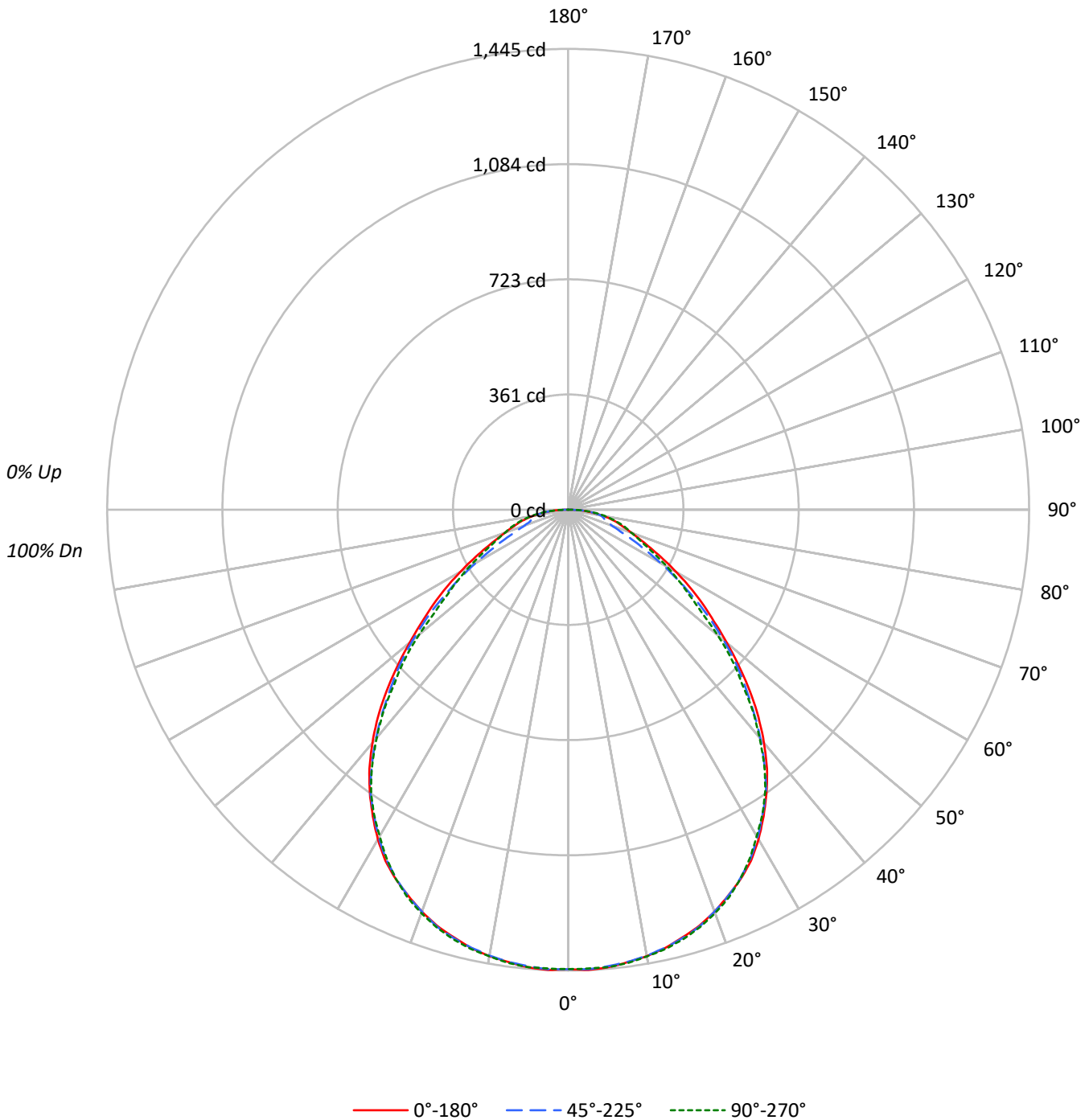
Input Watts (W): 23.715  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1938	1938	1938
5°	1945	1941	1944
10°	1942	1940	1943
15°	1933	1937	1942
20°	1920	1920	1927
25°	1898	1894	1896
30°	1854	1844	1835
35°	1781	1776	1769
40°	1678	1647	1640
45°	1535	1493	1465
50°	1357	1330	1278
55°	1206	1125	1081
60°	1051	900	965
65°	907	698	853
70°	828	570	826
75°	834	615	877
80°	869	801	924
85°	905	953	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	4.1
10°-20°	391.9	11.9
20°-30°	586.7	17.8
30°-40°	670.4	20.3
40°-50°	606.1	18.4
50°-60°	436.1	13.2
60°-70°	252.8	7.7
70°-80°	150.0	4.5
80°-90°	66.4	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°	1115.3	33.8
0°-40°	1785.7	54.2
0°-60°	2827.8	85.8
0°-90°	3297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1440	1438	1437	1435	1440	137
15°	1388	1390	1390	1389	1394	392
25°	1279	1277	1276	1274	1277	588
35°	1084	1079	1081	1068	1077	676
45°	806	793	784	777	770	620
55°	514	505	479	467	461	460
65°	285	253	219	245	268	288
75°	160	134	118	146	169	170
85°	59	63	62	71	66	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1440.7	1440.7	1440.7	1440.7	1440.7
2.5°	1444.8	1439.6	1442.2	1440.7	1440.2
5°	1440.2	1438.1	1437.1	1435.0	1439.6
7.5°	1430.9	1429.4	1429.9	1430.4	1433.5
10°	1421.6	1419.1	1419.6	1420.6	1422.2
12.5°	1407.2	1405.7	1406.2	1407.2	1410.8
15°	1387.7	1390.3	1390.3	1388.7	1393.9
17.5°	1368.2	1367.6	1370.2	1365.6	1372.8
20°	1340.9	1341.4	1340.9	1341.4	1346.0
22.5°	1310.0	1312.6	1311.1	1311.1	1316.2
25°	1278.7	1277.1	1276.1	1273.5	1277.1
27.5°	1241.1	1238.0	1235.5	1230.3	1232.9
30°	1193.3	1193.8	1187.1	1182.5	1181.4
32.5°	1139.8	1139.8	1133.6	1130.0	1133.1
35°	1084.2	1079.1	1081.1	1067.8	1077.0
37.5°	1024.1	1015.8	1011.2	1006.6	1009.7
40°	955.1	944.3	937.6	928.4	933.5
42.5°	882.6	869.2	861.0	854.3	856.4
45°	806.5	792.6	784.4	777.2	770.0
47.5°	726.3	717.5	713.4	704.1	695.9
50°	648.1	645.0	635.2	627.5	610.5
52.5°	576.6	574.0	558.6	545.7	524.1
55°	514.3	504.6	479.4	467.0	460.9
57.5°	451.1	435.1	404.8	403.2	407.4
60°	390.4	370.8	334.3	342.6	358.5
62.5°	335.4	306.0	271.1	290.6	309.6
65°	284.9	253.1	219.1	244.8	268.0
67.5°	243.3	211.4	176.4	210.9	237.6
70°	210.4	178.0	145.0	184.6	209.9
72.5°	183.1	153.8	126.5	164.1	190.3
75°	160.5	134.2	118.3	146.1	168.7
77.5°	137.8	116.8	113.2	130.1	144.0
80°	112.1	102.4	103.4	114.2	119.3
82.5°	83.8	84.4	86.9	95.7	93.6
85°	58.6	63.3	61.7	71.0	66.4
87.5°	32.4	35.5	33.4	40.6	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)