

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: P293849

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293849  
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-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3169.0 lumens  
Efficiency: N/A  
Efficacy: 135.2 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

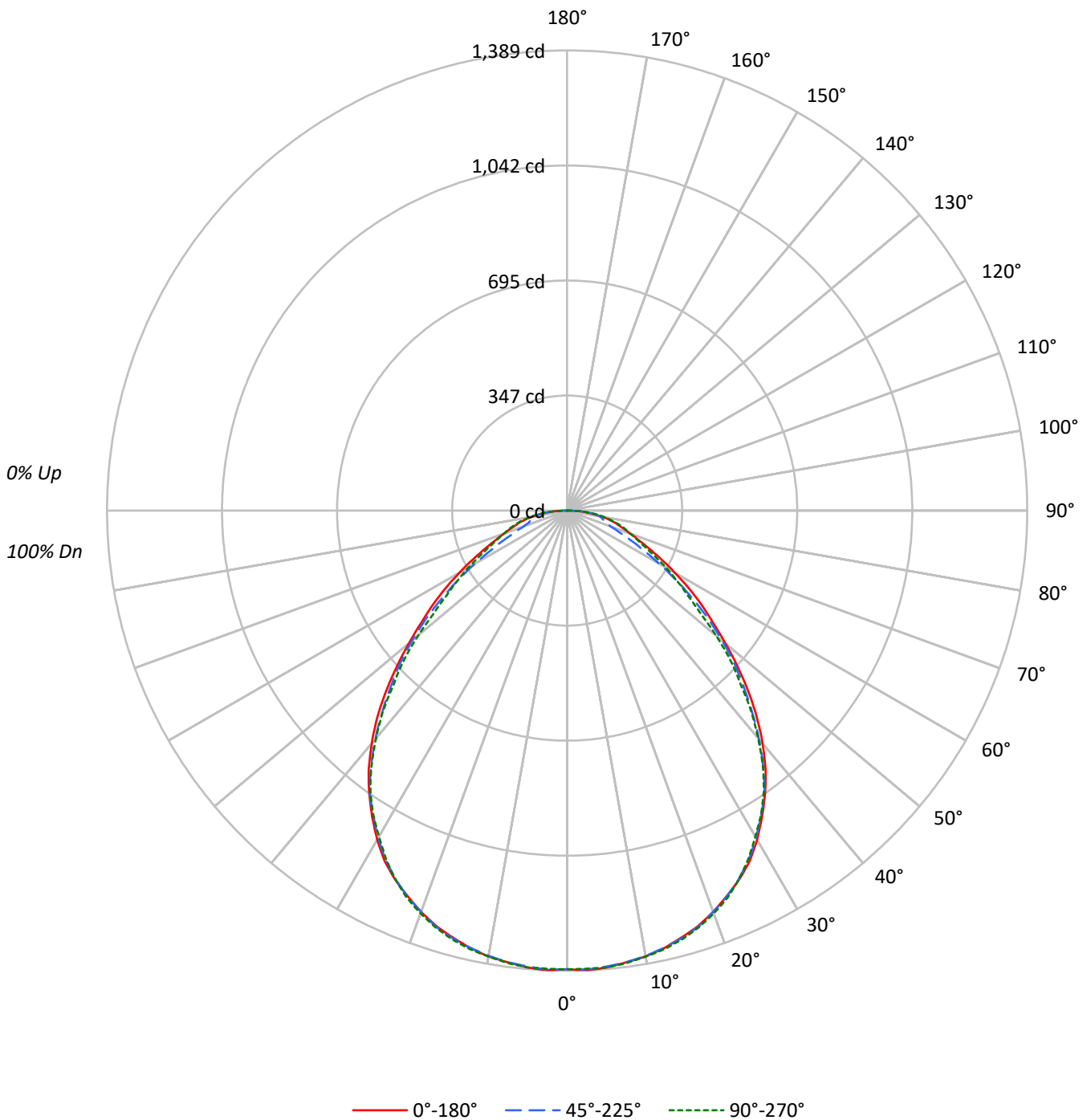
Input Watts (W): 23.436  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1863	1863	1863
5°	1870	1866	1869
10°	1867	1864	1868
15°	1858	1861	1866
20°	1845	1845	1853
25°	1825	1821	1822
30°	1782	1773	1764
35°	1712	1707	1700
40°	1613	1583	1576
45°	1475	1435	1408
50°	1304	1278	1228
55°	1160	1081	1039
60°	1010	865	927
65°	872	670	820
70°	795	548	793
75°	802	591	843
80°	835	770	889
85°	871	915	985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.4	4.1
10°-20°	376.7	11.9
20°-30°	563.9	17.8
30°-40°	644.4	20.3
40°-50°	582.6	18.4
50°-60°	419.1	13.2
60°-70°	243.0	7.7
70°-80°	144.1	4.5
80°-90°	63.8	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°	1072.0	33.8
0°-40°	1716.3	54.2
0°-60°	2718.0	85.8
0°-90°	3169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1384	1382	1381	1379	1384	131
15°	1334	1336	1336	1335	1340	377
25°	1229	1228	1226	1224	1228	565
35°	1042	1037	1039	1026	1035	650
45°	775	762	754	747	740	596
55°	494	485	461	449	443	442
65°	274	243	211	235	258	277
75°	154	129	114	140	162	163
85°	56	61	59	68	64	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1384.7	1384.7	1384.7	1384.7	1384.7
2.5°	1388.7	1383.8	1386.2	1384.7	1384.2
5°	1384.2	1382.3	1381.3	1379.3	1383.8
7.5°	1375.3	1373.9	1374.4	1374.9	1377.8
10°	1366.5	1364.0	1364.5	1365.5	1366.9
12.5°	1352.6	1351.1	1351.6	1352.6	1356.1
15°	1333.8	1336.3	1336.3	1334.8	1339.8
17.5°	1315.0	1314.5	1317.0	1312.6	1319.5
20°	1288.8	1289.3	1288.8	1289.3	1293.8
22.5°	1259.2	1261.6	1260.2	1260.2	1265.1
25°	1229.0	1227.5	1226.5	1224.1	1227.5
27.5°	1192.9	1190.0	1187.5	1182.5	1185.0
30°	1146.9	1147.4	1141.0	1136.6	1135.6
32.5°	1095.5	1095.5	1089.6	1086.1	1089.1
35°	1042.1	1037.2	1039.2	1026.3	1035.2
37.5°	984.3	976.4	971.9	967.5	970.5
40°	918.1	907.7	901.2	892.3	897.3
42.5°	848.3	835.5	827.6	821.2	823.1
45°	775.2	761.8	753.9	747.0	740.1
47.5°	698.1	689.7	685.7	676.8	668.9
50°	622.9	619.9	610.6	603.1	586.8
52.5°	554.2	551.7	536.9	524.5	503.8
55°	494.4	485.0	460.8	448.9	443.0
57.5°	433.6	418.2	389.1	387.6	391.5
60°	375.2	356.4	321.3	329.3	344.6
62.5°	322.3	294.2	260.5	279.3	297.6
65°	273.9	243.2	210.6	235.3	257.6
67.5°	233.8	203.2	169.6	202.7	228.4
70°	202.2	171.1	139.4	177.5	201.7
72.5°	176.0	147.8	121.6	157.7	182.9
75°	154.2	129.0	113.7	140.4	162.2
77.5°	132.5	112.2	108.8	125.1	138.4
80°	107.8	98.4	99.4	109.8	114.7
82.5°	80.6	81.1	83.5	92.0	90.0
85°	56.4	60.8	59.3	68.2	63.8
87.5°	31.1	34.1	32.1	39.1	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)