

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: P293599

Luminaire Tested: **24GR-LD5-34-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3315.0 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

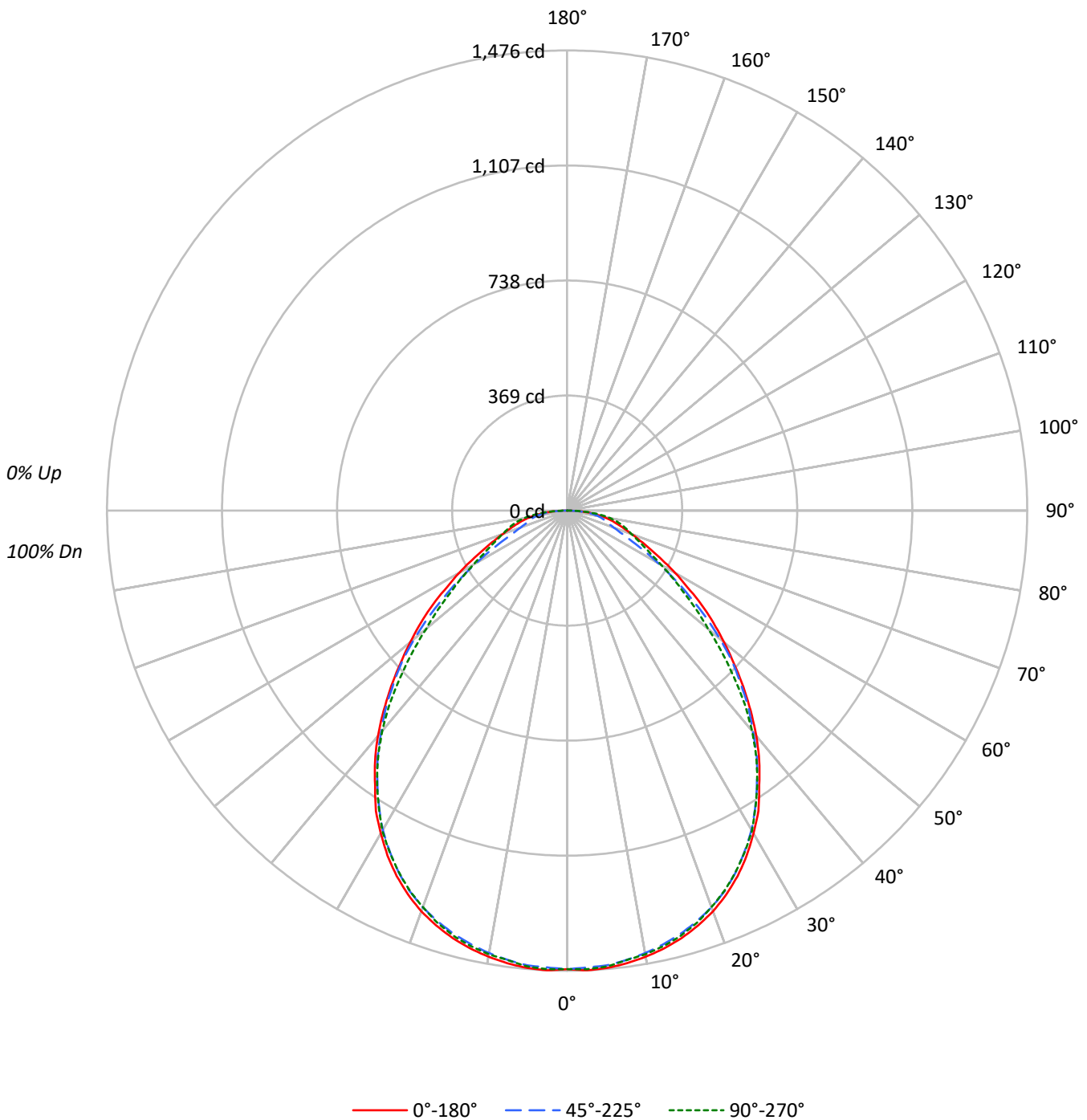
Input Watts (W): 23.622  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	1979	1979	1979
5°	1989	1978	1982
10°	1985	1969	1974
15°	1977	1958	1966
20°	1959	1939	1938
25°	1920	1900	1898
30°	1857	1838	1842
35°	1764	1744	1746
40°	1659	1630	1620
45°	1520	1500	1440
50°	1374	1337	1236
55°	1234	1123	1066
60°	1080	904	937
65°	942	711	862
70°	862	620	862
75°	862	660	950
80°	937	778	1083
85°	1028	877	1162



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.3	4.2
10°-20°	397.5	12.0
20°-30°	589.4	17.8
30°-40°	664.9	20.1
40°-50°	602.2	18.2
50°-60°	434.5	13.1
60°-70°	259.4	7.8
70°-80°	160.3	4.8
80°-90°	67.5	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°	1126.2	34.0
0°-40°	1791.1	54.0
0°-60°	2827.7	85.3
0°-90°	3315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1472	1470	1464	1463	1468	140
15°	1420	1411	1405	1406	1411	400
25°	1294	1286	1280	1275	1279	594
35°	1074	1072	1062	1062	1063	672
45°	799	794	788	769	757	616
55°	526	510	479	455	454	470
65°	296	261	223	254	271	298
75°	166	144	127	158	183	177
85°	67	58	57	74	75	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1470.8	1470.8	1470.8	1470.8	1470.8
2.5°	1475.9	1471.9	1466.7	1469.8	1472.4
5°	1472.4	1470.3	1464.2	1462.6	1467.8
7.5°	1464.7	1459.6	1453.9	1456.5	1454.4
10°	1452.9	1448.3	1441.1	1441.6	1445.2
12.5°	1438.6	1432.9	1425.2	1427.3	1430.4
15°	1419.6	1410.9	1405.3	1405.8	1411.4
17.5°	1395.5	1388.9	1381.7	1383.3	1385.8
20°	1367.9	1364.3	1354.1	1351.0	1353.6
22.5°	1333.1	1326.4	1320.8	1319.2	1319.7
25°	1293.6	1286.5	1279.8	1275.2	1278.8
27.5°	1247.5	1241.4	1232.7	1231.2	1234.2
30°	1195.3	1190.7	1183.0	1181.0	1185.6
32.5°	1142.0	1134.4	1123.6	1123.6	1124.6
35°	1073.9	1072.4	1061.6	1062.2	1063.2
37.5°	1012.5	1005.3	999.2	993.0	996.1
40°	944.4	936.2	928.0	923.9	922.3
42.5°	871.1	865.0	861.4	846.5	843.0
45°	798.9	793.8	788.2	768.7	756.9
47.5°	725.2	724.1	719.5	685.2	673.4
50°	656.5	655.0	638.6	602.3	590.5
52.5°	591.5	581.3	559.8	523.9	521.9
55°	526.0	509.6	478.8	455.3	454.3
57.5°	456.8	437.4	406.1	393.3	400.0
60°	401.5	371.8	336.0	337.5	348.2
62.5°	344.1	310.9	275.5	290.9	303.7
65°	296.0	260.7	223.3	253.5	270.9
67.5°	254.0	221.2	185.4	225.8	242.7
70°	219.2	192.6	157.7	200.2	219.2
72.5°	191.5	167.0	139.8	179.8	201.8
75°	165.9	143.9	127.0	158.2	182.8
77.5°	143.9	122.4	114.7	139.8	163.9
80°	120.9	101.4	100.4	121.9	139.8
82.5°	94.2	80.9	80.9	101.9	112.7
85°	66.6	58.4	56.8	74.3	75.3
87.5°	34.3	32.8	29.7	38.9	38.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)