

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: P293800

Luminaire Tested: **24GR-LD5-34-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293800  
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-L93050-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3267.0 lumens  
Efficiency: N/A  
Efficacy: 136.5 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

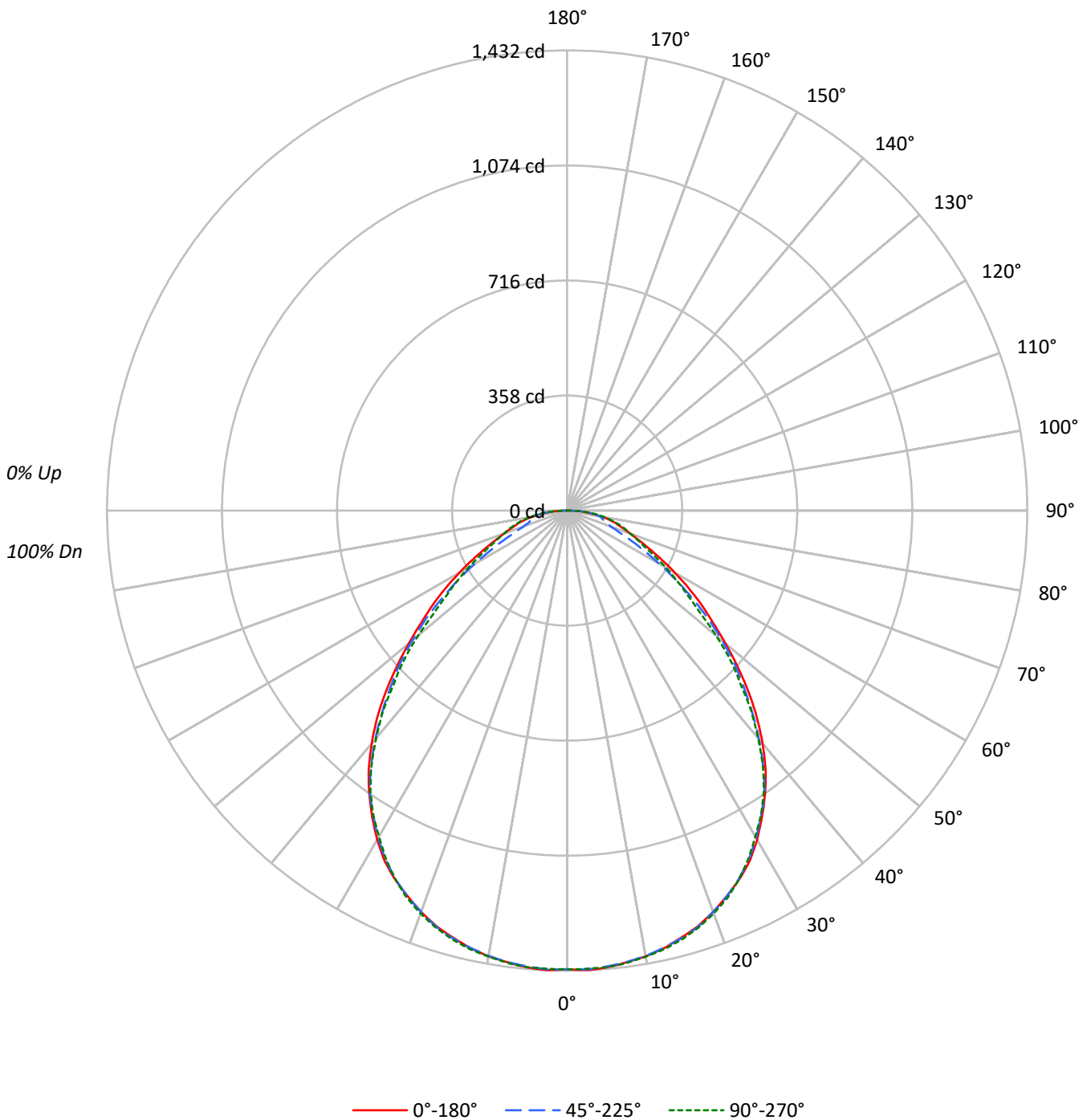
Input Watts (W): 23.935782  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1921	1921	1921
5°	1927	1923	1927
10°	1925	1922	1925
15°	1915	1919	1924
20°	1902	1902	1910
25°	1881	1877	1879
30°	1837	1828	1819
35°	1765	1760	1753
40°	1662	1632	1625
45°	1521	1479	1452
50°	1344	1317	1266
55°	1196	1114	1071
60°	1041	892	956
65°	899	691	845
70°	820	565	818
75°	827	609	869
80°	861	793	916
85°	897	945	1014



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.4	4.1
10°-20°	388.4	11.9
20°-30°	581.3	17.8
30°-40°	664.3	20.3
40°-50°	600.6	18.4
50°-60°	432.1	13.2
60°-70°	250.5	7.7
70°-80°	148.6	4.5
80°-90°	65.8	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°	1105.1	33.8
0°-40°	1769.4	54.2
0°-60°	2802.1	85.8
0°-90°	3267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1427	1425	1424	1422	1426	136
15°	1375	1378	1378	1376	1381	388
25°	1267	1266	1264	1262	1266	582
35°	1074	1069	1071	1058	1067	670
45°	799	785	777	770	763	614
55°	510	500	475	463	457	456
65°	282	251	217	243	266	285
75°	159	133	117	145	167	168
85°	58	63	61	70	66	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1431.6	1426.5	1429.1	1427.6	1427.1
5°	1427.1	1425.0	1424.0	1422.0	1426.5
7.5°	1417.9	1416.4	1416.9	1417.4	1420.4
10°	1408.7	1406.2	1406.7	1407.7	1409.2
12.5°	1394.4	1392.9	1393.4	1394.4	1398.0
15°	1375.1	1377.6	1377.6	1376.1	1381.2
17.5°	1355.7	1355.2	1357.7	1353.2	1360.3
20°	1328.7	1329.2	1328.7	1329.2	1333.8
22.5°	1298.1	1300.7	1299.1	1299.1	1304.2
25°	1267.0	1265.5	1264.5	1261.9	1265.5
27.5°	1229.8	1226.8	1224.2	1219.1	1221.7
30°	1182.4	1182.9	1176.3	1171.7	1170.7
32.5°	1129.4	1129.4	1123.3	1119.7	1122.8
35°	1074.4	1069.3	1071.3	1058.1	1067.2
37.5°	1014.7	1006.6	1002.0	997.4	1000.5
40°	946.4	935.7	929.1	919.9	925.0
42.5°	874.6	861.3	853.2	846.5	848.6
45°	799.2	785.4	777.2	770.1	763.0
47.5°	719.6	711.0	706.9	697.7	689.6
50°	642.2	639.1	629.4	621.8	605.0
52.5°	571.3	568.8	553.5	540.8	519.3
55°	509.7	500.0	475.0	462.8	456.7
57.5°	447.0	431.2	401.1	399.6	403.7
60°	386.8	367.5	331.3	339.4	355.2
62.5°	332.3	303.2	268.6	288.0	306.8
65°	282.4	250.8	217.1	242.6	265.5
67.5°	241.1	209.5	174.8	209.0	235.5
70°	208.5	176.3	143.7	183.0	207.9
72.5°	181.4	152.4	125.4	162.6	188.6
75°	159.0	133.0	117.2	144.7	167.2
77.5°	136.6	115.7	112.1	128.9	142.7
80°	111.1	101.4	102.4	113.1	118.2
82.5°	83.1	83.6	86.1	94.8	92.8
85°	58.1	62.7	61.2	70.3	65.7
87.5°	32.1	35.2	33.1	40.3	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)