

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: P293672

Luminaire Tested: **24GR-LD5-34-A125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293672  
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-L83050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3673.0 lumens  
Efficiency: N/A  
Efficacy: 156.1 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

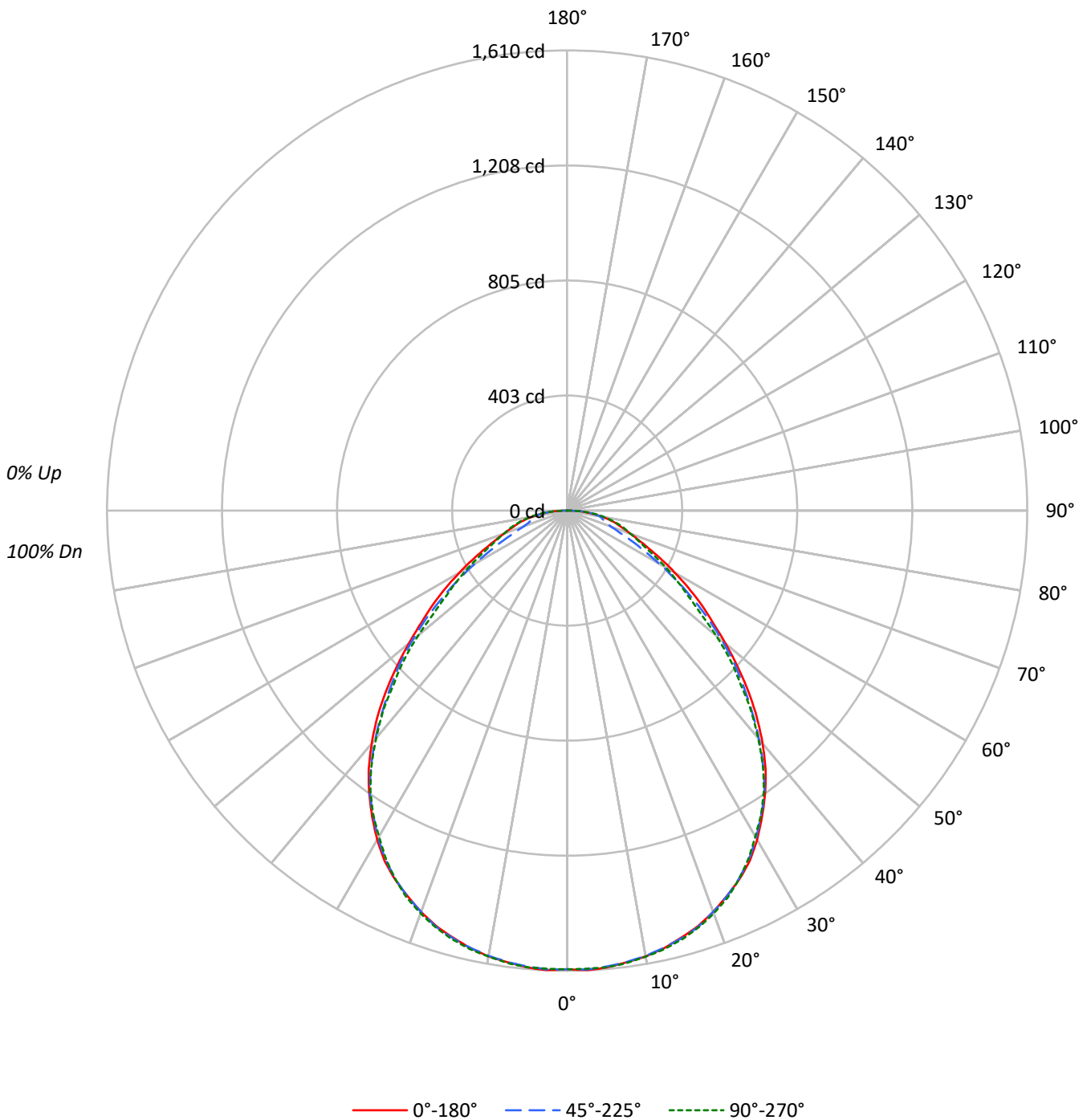
Input Watts (W): 23.529  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2160	2160	2160
5°	2167	2162	2166
10°	2164	2161	2165
15°	2154	2157	2163
20°	2139	2139	2147
25°	2115	2110	2112
30°	2065	2055	2045
35°	1984	1978	1971
40°	1869	1835	1827
45°	1710	1663	1632
50°	1511	1481	1424
55°	1344	1253	1204
60°	1170	1002	1075
65°	1011	777	950
70°	922	636	920
75°	930	685	977
80°	968	893	1030
85°	1008	1062	1141



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.2	4.1
10°-20°	436.6	11.9
20°-30°	653.6	17.8
30°-40°	746.8	20.3
40°-50°	675.2	18.4
50°-60°	485.8	13.2
60°-70°	281.6	7.7
70°-80°	167.1	4.5
80°-90°	74.0	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°	1242.5	33.8
0°-40°	1989.3	54.2
0°-60°	3150.3	85.8
0°-90°	3673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3673.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1605	1605	1605	1605	1605	
5°	1604	1602	1601	1599	1604	152
15°	1546	1549	1549	1547	1553	436
25°	1424	1423	1422	1419	1423	655
35°	1208	1202	1204	1190	1200	753
45°	898	883	874	866	858	690
55°	573	562	534	520	513	513
65°	317	282	244	273	298	320
75°	179	150	132	163	188	189
85°	65	70	69	79	74	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1605.0	1605.0	1605.0	1605.0	1605.0
2.5°	1609.6	1603.8	1606.7	1605.0	1604.4
5°	1604.4	1602.1	1601.0	1598.7	1603.8
7.5°	1594.1	1592.4	1592.9	1593.5	1597.0
10°	1583.8	1580.9	1581.5	1582.6	1584.3
12.5°	1567.7	1566.0	1566.6	1567.7	1571.7
15°	1546.0	1548.8	1548.8	1547.1	1552.8
17.5°	1524.2	1523.6	1526.5	1521.3	1529.3
20°	1493.8	1494.4	1493.8	1494.4	1499.5
22.5°	1459.4	1462.3	1460.6	1460.6	1466.3
25°	1424.5	1422.8	1421.6	1418.7	1422.8
27.5°	1382.6	1379.2	1376.3	1370.6	1373.5
30°	1329.4	1329.9	1322.5	1317.3	1316.2
32.5°	1269.8	1269.8	1262.9	1258.9	1262.3
35°	1207.9	1202.2	1204.4	1189.5	1199.9
37.5°	1140.8	1131.7	1126.5	1121.4	1124.8
40°	1064.1	1052.0	1044.6	1034.3	1040.0
42.5°	983.3	968.4	959.2	951.8	954.0
45°	898.5	883.0	873.8	865.8	857.8
47.5°	809.1	799.3	794.8	784.4	775.3
50°	722.0	718.5	707.7	699.1	680.2
52.5°	642.3	639.5	622.3	608.0	583.9
55°	573.0	562.1	534.0	520.3	513.4
57.5°	502.5	484.8	451.0	449.2	453.8
60°	434.9	413.1	372.5	381.6	399.4
62.5°	373.6	340.9	302.0	323.7	344.9
65°	317.4	281.9	244.1	272.7	298.5
67.5°	271.0	235.5	196.5	234.9	264.7
70°	234.4	198.3	161.6	205.7	233.8
72.5°	204.0	171.3	141.0	182.8	212.0
75°	178.8	149.6	131.8	162.7	187.9
77.5°	153.6	130.1	126.1	145.0	160.4
80°	124.9	114.0	115.2	127.2	132.9
82.5°	93.4	94.0	96.8	106.6	104.3
85°	65.3	70.5	68.8	79.1	73.9
87.5°	36.1	39.5	37.2	45.3	40.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)