

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: P293675

Luminaire Tested: **24GR-LD5-38-A125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293675  
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-LD5-38-A125-UNV-L83050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3643.0 lumens  
Efficiency: N/A  
Efficacy: 144.0 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

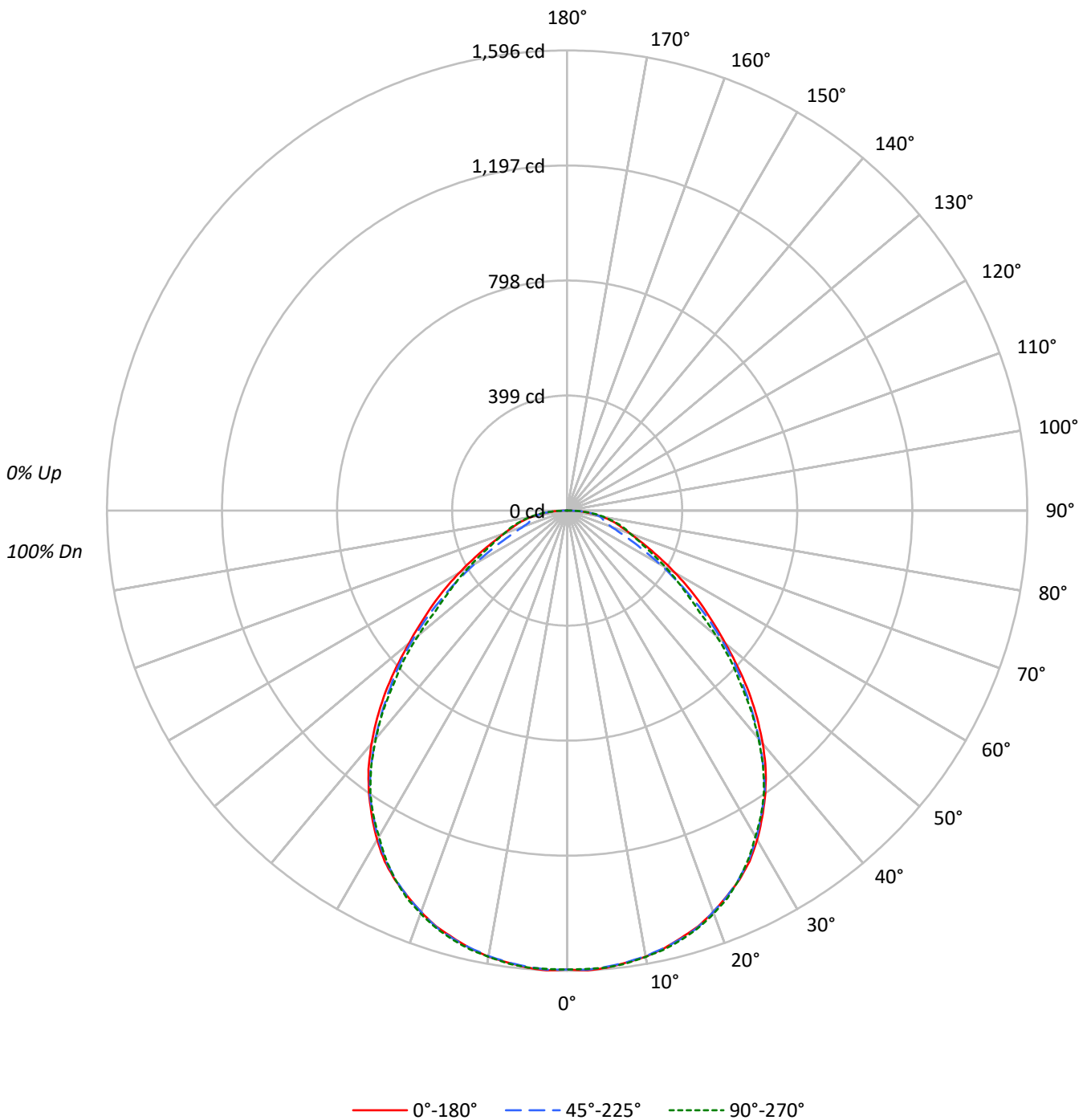
Input Watts (W): 25.296  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	69	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°	2142	2142	2142
5°	2149	2145	2148
10°	2146	2143	2147
15°	2136	2140	2145
20°	2121	2121	2130
25°	2097	2093	2095
30°	2048	2038	2028
35°	1968	1962	1955
40°	1854	1820	1812
45°	1696	1649	1619
50°	1499	1469	1412
55°	1333	1243	1194
60°	1161	994	1066
65°	1002	771	943
70°	914	631	912
75°	922	679	969
80°	960	885	1022
85°	1000	1053	1132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	4.1
10°-20°	433.1	11.9
20°-30°	648.3	17.8
30°-40°	740.7	20.3
40°-50°	669.7	18.4
50°-60°	481.8	13.2
60°-70°	279.3	7.7
70°-80°	165.7	4.5
80°-90°	73.4	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°	1232.3	33.8
0°-40°	1973.1	54.2
0°-60°	3124.6	85.8
0°-90°	3643.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3643.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1592	1592	1592	1592	1592	
5°	1591	1589	1588	1586	1591	151
15°	1533	1536	1536	1534	1540	433
25°	1413	1411	1410	1407	1411	650
35°	1198	1192	1195	1180	1190	747
45°	891	876	867	859	851	685
55°	568	558	530	516	509	508
65°	315	280	242	270	296	318
75°	177	148	131	161	186	187
85°	65	70	68	78	73	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1591.9	1591.9	1591.9	1591.9	1591.9
2.5°	1596.4	1590.7	1593.6	1591.9	1591.3
5°	1591.3	1589.0	1587.9	1585.6	1590.7
7.5°	1581.1	1579.4	1579.9	1580.5	1583.9
10°	1570.8	1568.0	1568.6	1569.7	1571.4
12.5°	1554.9	1553.2	1553.8	1554.9	1558.9
15°	1533.3	1536.2	1536.2	1534.5	1540.1
17.5°	1511.7	1511.2	1514.0	1508.9	1516.8
20°	1481.6	1482.2	1481.6	1482.2	1487.3
22.5°	1447.5	1450.4	1448.6	1448.6	1454.3
25°	1412.8	1411.1	1410.0	1407.2	1411.1
27.5°	1371.4	1367.9	1365.1	1359.4	1362.3
30°	1318.5	1319.1	1311.7	1306.6	1305.4
32.5°	1259.4	1259.4	1252.6	1248.6	1252.0
35°	1198.0	1192.3	1194.6	1179.8	1190.1
37.5°	1131.5	1122.4	1117.3	1112.2	1115.6
40°	1055.4	1043.4	1036.0	1025.8	1031.5
42.5°	975.2	960.5	951.4	944.0	946.3
45°	891.1	875.8	866.7	858.7	850.8
47.5°	802.5	792.8	788.3	778.0	768.9
50°	716.1	712.7	701.9	693.4	674.6
52.5°	637.1	634.2	617.2	603.0	579.1
55°	568.3	557.5	529.7	516.0	509.2
57.5°	498.4	480.8	447.3	445.6	450.1
60°	431.4	409.8	369.4	378.5	396.1
62.5°	370.5	338.2	299.5	321.1	342.1
65°	314.8	279.6	242.1	270.5	296.1
67.5°	268.8	233.6	194.9	233.0	262.6
70°	232.4	196.6	160.3	204.0	231.9
72.5°	202.3	169.9	139.8	181.3	210.3
75°	177.3	148.3	130.7	161.4	186.4
77.5°	152.3	129.0	125.0	143.8	159.1
80°	123.9	113.1	114.2	126.2	131.9
82.5°	92.6	93.2	96.0	105.7	103.4
85°	64.8	69.9	68.2	78.4	73.3
87.5°	35.8	39.2	36.9	44.9	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)