

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: P293815

Luminaire Tested: **24GR-LD5-48-A125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293815  
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-LD5-48-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: 4537.0 lumens  
Efficiency: N/A  
Efficacy: 132.6 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

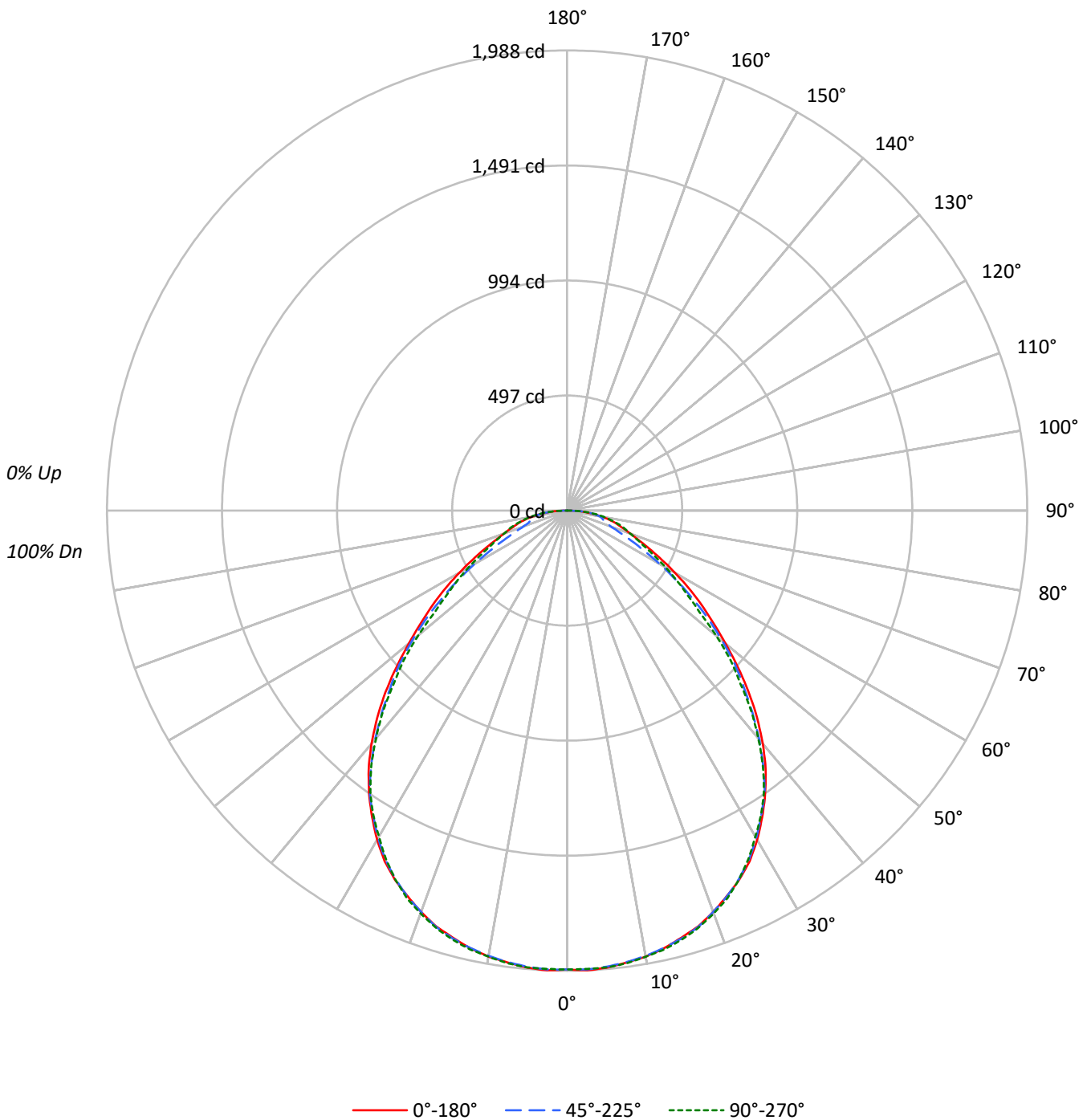
Input Watts (W): 34.207818  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2667	2667	2667
5°	2677	2671	2676
10°	2673	2669	2674
15°	2660	2665	2672
20°	2642	2642	2652
25°	2612	2607	2609
30°	2551	2538	2526
35°	2451	2444	2434
40°	2309	2266	2256
45°	2112	2054	2016
50°	1867	1830	1759
55°	1660	1548	1488
60°	1446	1238	1327
65°	1248	960	1174
70°	1139	785	1136
75°	1148	846	1207
80°	1196	1103	1272
85°	1246	1311	1409



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.1	4.1
10°-20°	539.4	11.9
20°-30°	807.3	17.8
30°-40°	922.5	20.3
40°-50°	834.1	18.4
50°-60°	600.1	13.2
60°-70°	347.9	7.7
70°-80°	206.4	4.5
80°-90°	91.4	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°	1534.7	33.8
0°-40°	2457.3	54.2
0°-60°	3891.4	85.8
0°-90°	4537.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4537.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1982	1979	1978	1975	1981	188
15°	1910	1913	1913	1911	1918	539
25°	1760	1757	1756	1752	1757	809
35°	1492	1485	1488	1469	1482	930
45°	1110	1091	1079	1070	1060	853
55°	708	694	660	643	634	633
65°	392	348	302	337	369	396
75°	221	185	163	201	232	233
85°	81	87	85	98	91	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1982.5	1982.5	1982.5	1982.5	1982.5
2.5°	1988.2	1981.1	1984.6	1982.5	1981.8
5°	1981.8	1979.0	1977.6	1974.7	1981.1
7.5°	1969.1	1966.9	1967.6	1968.4	1972.6
10°	1956.3	1952.8	1953.5	1954.9	1957.0
12.5°	1936.5	1934.4	1935.1	1936.5	1941.5
15°	1909.6	1913.1	1913.1	1911.0	1918.1
17.5°	1882.7	1882.0	1885.5	1879.2	1889.1
20°	1845.2	1845.9	1845.2	1845.9	1852.3
22.5°	1802.7	1806.3	1804.1	1804.1	1811.2
25°	1759.6	1757.4	1756.0	1752.5	1757.4
27.5°	1707.9	1703.6	1700.1	1693.0	1696.6
30°	1642.1	1642.8	1633.6	1627.2	1625.8
32.5°	1568.5	1568.5	1560.0	1555.0	1559.3
35°	1492.0	1484.9	1487.8	1469.4	1482.1
37.5°	1409.2	1397.9	1391.5	1385.1	1389.4
40°	1314.4	1299.5	1290.3	1277.6	1284.6
42.5°	1214.6	1196.2	1184.8	1175.6	1178.5
45°	1109.8	1090.7	1079.4	1069.5	1059.6
47.5°	999.4	987.4	981.7	969.0	957.6
50°	891.8	887.6	874.1	863.5	840.1
52.5°	793.4	789.9	768.7	751.0	721.2
55°	707.8	694.3	659.7	642.7	634.2
57.5°	620.7	598.8	557.0	554.9	560.6
60°	537.2	510.3	460.1	471.4	493.3
62.5°	461.5	421.1	373.0	399.9	426.1
65°	392.1	348.2	301.5	336.9	368.8
67.5°	334.8	290.9	242.8	290.2	327.0
70°	289.5	244.9	199.6	254.1	288.8
72.5°	252.0	211.6	174.1	225.8	261.9
75°	220.8	184.7	162.8	201.0	232.2
77.5°	189.7	160.7	155.7	179.1	198.2
80°	154.3	140.8	142.3	157.1	164.2
82.5°	115.4	116.1	119.6	131.6	128.8
85°	80.7	87.1	84.9	97.7	91.3
87.5°	44.6	48.8	46.0	55.9	50.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)