

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: P293673

Luminaire Tested: **24GR-LD5-34-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293673  
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-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3707.0 lumens  
Efficiency: N/A  
Efficacy: 153.9 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

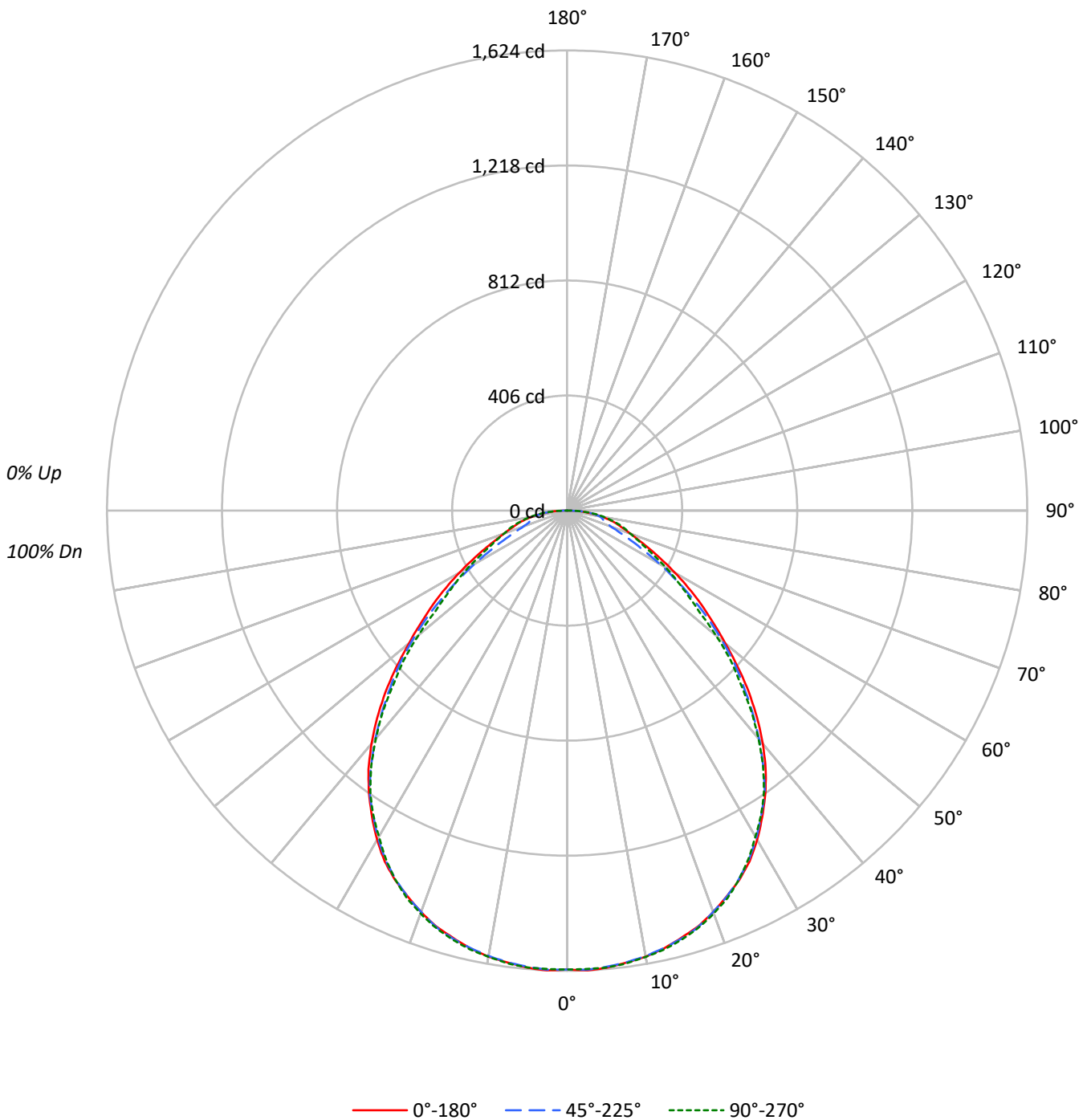
Input Watts (W): 24.087  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2179	2179	2179
5°	2187	2182	2186
10°	2184	2181	2185
15°	2173	2177	2183
20°	2159	2159	2167
25°	2134	2130	2132
30°	2085	2074	2064
35°	2002	1997	1989
40°	1886	1852	1844
45°	1725	1678	1647
50°	1525	1495	1437
55°	1357	1264	1216
60°	1181	1012	1085
65°	1020	784	959
70°	930	642	928
75°	938	691	986
80°	977	900	1040
85°	1017	1071	1152



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.7	4.1
10°-20°	440.7	11.9
20°-30°	659.6	17.8
30°-40°	753.8	20.3
40°-50°	681.5	18.4
50°-60°	490.3	13.2
60°-70°	284.2	7.7
70°-80°	168.6	4.5
80°-90°	74.7	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°	1254.0	33.8
0°-40°	2007.7	54.2
0°-60°	3179.5	85.8
0°-90°	3707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3707.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1620	1620	1620	1620	1620	
5°	1619	1617	1616	1614	1619	154
15°	1560	1563	1563	1561	1567	440
25°	1438	1436	1435	1432	1436	661
35°	1219	1213	1216	1201	1211	760
45°	907	891	882	874	866	697
55°	578	567	539	525	518	517
65°	320	284	246	275	301	323
75°	180	151	133	164	190	191
85°	66	71	69	80	75	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1619.8	1619.8	1619.8	1619.8	1619.8
2.5°	1624.5	1618.7	1621.6	1619.8	1619.3
5°	1619.3	1616.9	1615.8	1613.5	1618.7
7.5°	1608.8	1607.1	1607.7	1608.3	1611.7
10°	1598.4	1595.5	1596.1	1597.3	1599.0
12.5°	1582.2	1580.5	1581.1	1582.2	1586.3
15°	1560.3	1563.2	1563.2	1561.4	1567.2
17.5°	1538.3	1537.7	1540.6	1535.4	1543.5
20°	1507.6	1508.2	1507.6	1508.2	1513.4
22.5°	1472.9	1475.8	1474.1	1474.1	1479.9
25°	1437.7	1435.9	1434.8	1431.9	1435.9
27.5°	1395.4	1392.0	1389.1	1383.3	1386.2
30°	1341.7	1342.2	1334.7	1329.5	1328.4
32.5°	1281.5	1281.5	1274.6	1270.5	1274.0
35°	1219.1	1213.3	1215.6	1200.6	1211.0
37.5°	1151.4	1142.2	1136.9	1131.7	1135.2
40°	1073.9	1061.8	1054.2	1043.8	1049.6
42.5°	992.4	977.3	968.1	960.6	962.9
45°	906.8	891.2	881.9	873.8	865.7
47.5°	816.6	806.7	802.1	791.7	782.4
50°	728.7	725.2	714.2	705.5	686.4
52.5°	648.3	645.4	628.0	613.6	589.3
55°	578.3	567.3	539.0	525.1	518.2
57.5°	507.2	489.2	455.1	453.4	458.0
60°	438.9	417.0	375.9	385.2	403.1
62.5°	377.1	344.1	304.8	326.7	348.1
65°	320.4	284.5	246.4	275.3	301.3
67.5°	273.5	237.7	198.4	237.1	267.2
70°	236.5	200.1	163.1	207.6	235.9
72.5°	205.9	172.9	142.3	184.5	214.0
75°	180.4	150.9	133.0	164.2	189.7
77.5°	155.0	131.3	127.2	146.3	161.9
80°	126.1	115.1	116.2	128.4	134.2
82.5°	94.3	94.8	97.7	107.6	105.3
85°	65.9	71.1	69.4	79.8	74.6
87.5°	36.4	39.9	37.6	45.7	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)