

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: P293719

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293719  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3209.0 lumens  
Efficiency: N/A  
Efficacy: 139.7 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

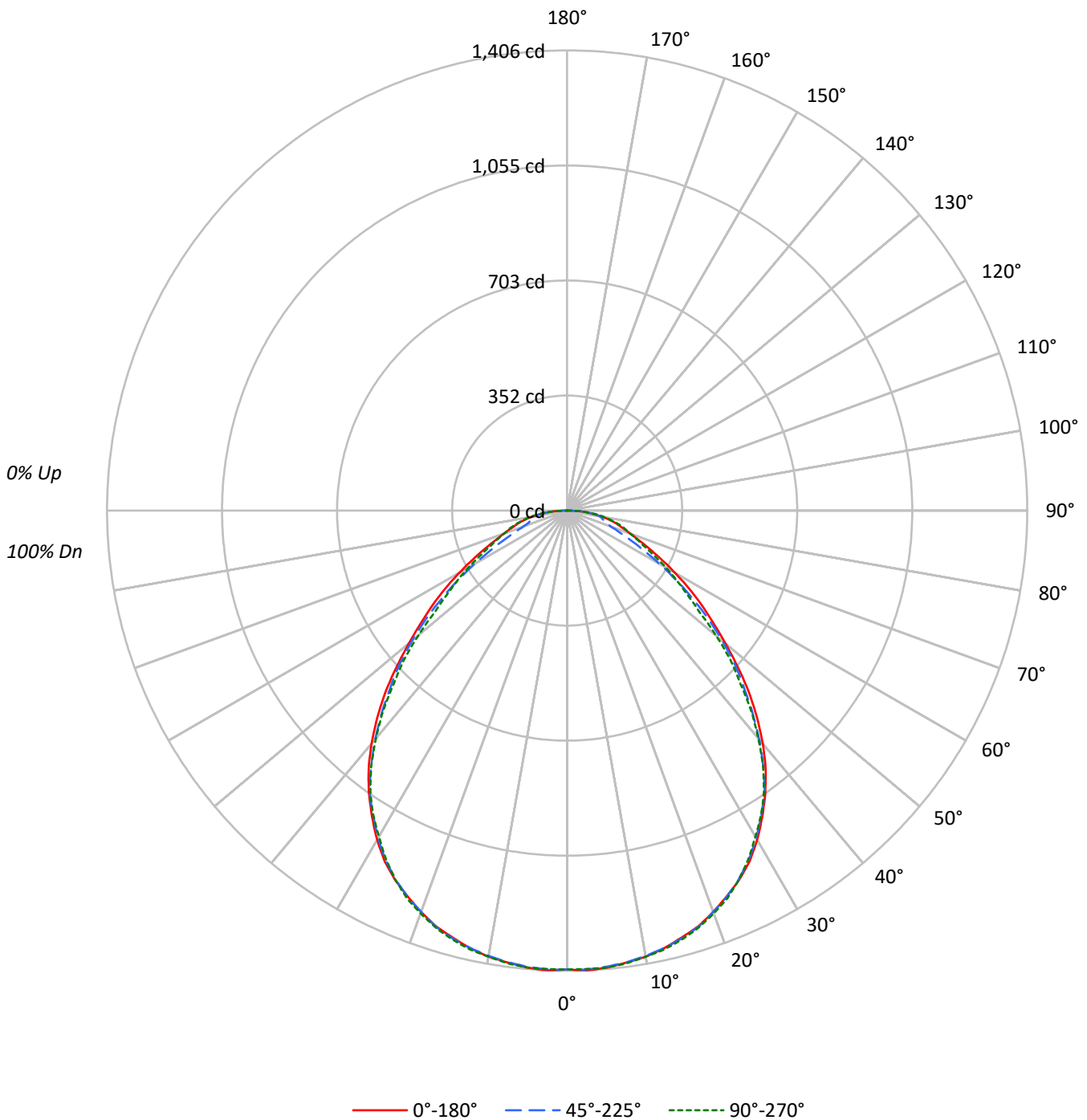
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1887	1887	1887
5°	1893	1889	1893
10°	1890	1888	1891
15°	1881	1885	1890
20°	1869	1869	1876
25°	1848	1844	1845
30°	1804	1795	1787
35°	1733	1728	1722
40°	1633	1603	1596
45°	1494	1453	1426
50°	1320	1294	1244
55°	1174	1095	1052
60°	1023	876	939
65°	883	679	830
70°	806	555	804
75°	812	598	854
80°	845	779	900
85°	881	928	997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	4.1
10°-20°	381.5	11.9
20°-30°	571.0	17.8
30°-40°	652.5	20.3
40°-50°	589.9	18.4
50°-60°	424.4	13.2
60°-70°	246.1	7.7
70°-80°	146.0	4.5
80°-90°	64.6	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°	1085.5	33.8
0°-40°	1738.0	54.2
0°-60°	2752.4	85.8
0°-90°	3209.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1402	1402	1402	1402	1402	
5°	1402	1400	1399	1397	1401	133
15°	1351	1353	1353	1352	1357	381
25°	1244	1243	1242	1240	1243	572
35°	1055	1050	1052	1039	1048	658
45°	785	771	763	756	749	603
55°	501	491	467	455	449	448
65°	277	246	213	238	261	280
75°	156	131	115	142	164	165
85°	57	62	60	69	65	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1402.2	1402.2	1402.2	1402.2	1402.2
2.5°	1406.2	1401.2	1403.7	1402.2	1401.7
5°	1401.7	1399.7	1398.7	1396.7	1401.2
7.5°	1392.7	1391.2	1391.7	1392.2	1395.2
10°	1383.7	1381.2	1381.7	1382.7	1384.2
12.5°	1369.7	1368.2	1368.7	1369.7	1373.2
15°	1350.7	1353.2	1353.2	1351.7	1356.7
17.5°	1331.6	1331.1	1333.6	1329.1	1336.1
20°	1305.1	1305.6	1305.1	1305.6	1310.1
22.5°	1275.1	1277.6	1276.1	1276.1	1281.1
25°	1244.5	1243.0	1242.0	1239.5	1243.0
27.5°	1208.0	1205.0	1202.5	1197.5	1200.0
30°	1161.4	1161.9	1155.4	1150.9	1149.9
32.5°	1109.4	1109.4	1103.4	1099.9	1102.9
35°	1055.3	1050.3	1052.3	1039.3	1048.3
37.5°	996.7	988.7	984.2	979.7	982.7
40°	929.6	919.1	912.6	903.6	908.6
42.5°	859.1	846.0	838.0	831.5	833.5
45°	785.0	771.4	763.4	756.4	749.4
47.5°	706.9	698.4	694.4	685.3	677.3
50°	630.8	627.8	618.3	610.7	594.2
52.5°	561.2	558.7	543.7	531.2	510.1
55°	500.6	491.1	466.6	454.6	448.6
57.5°	439.0	423.5	394.0	392.5	396.5
60°	380.0	360.9	325.4	333.4	348.9
62.5°	326.4	297.9	263.8	282.8	301.4
65°	277.3	246.3	213.3	238.3	260.8
67.5°	236.8	205.8	171.7	205.3	231.3
70°	204.8	173.2	141.2	179.7	204.3
72.5°	178.2	149.7	123.2	159.7	185.2
75°	156.2	130.7	115.1	142.2	164.2
77.5°	134.2	113.6	110.1	126.7	140.2
80°	109.1	99.6	100.6	111.1	116.1
82.5°	81.6	82.1	84.6	93.1	91.1
85°	57.1	61.6	60.1	69.1	64.6
87.5°	31.5	34.5	32.5	39.5	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)