

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: P293854

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293854  
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-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3021.0 lumens  
Efficiency: N/A  
Efficacy: 119.4 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

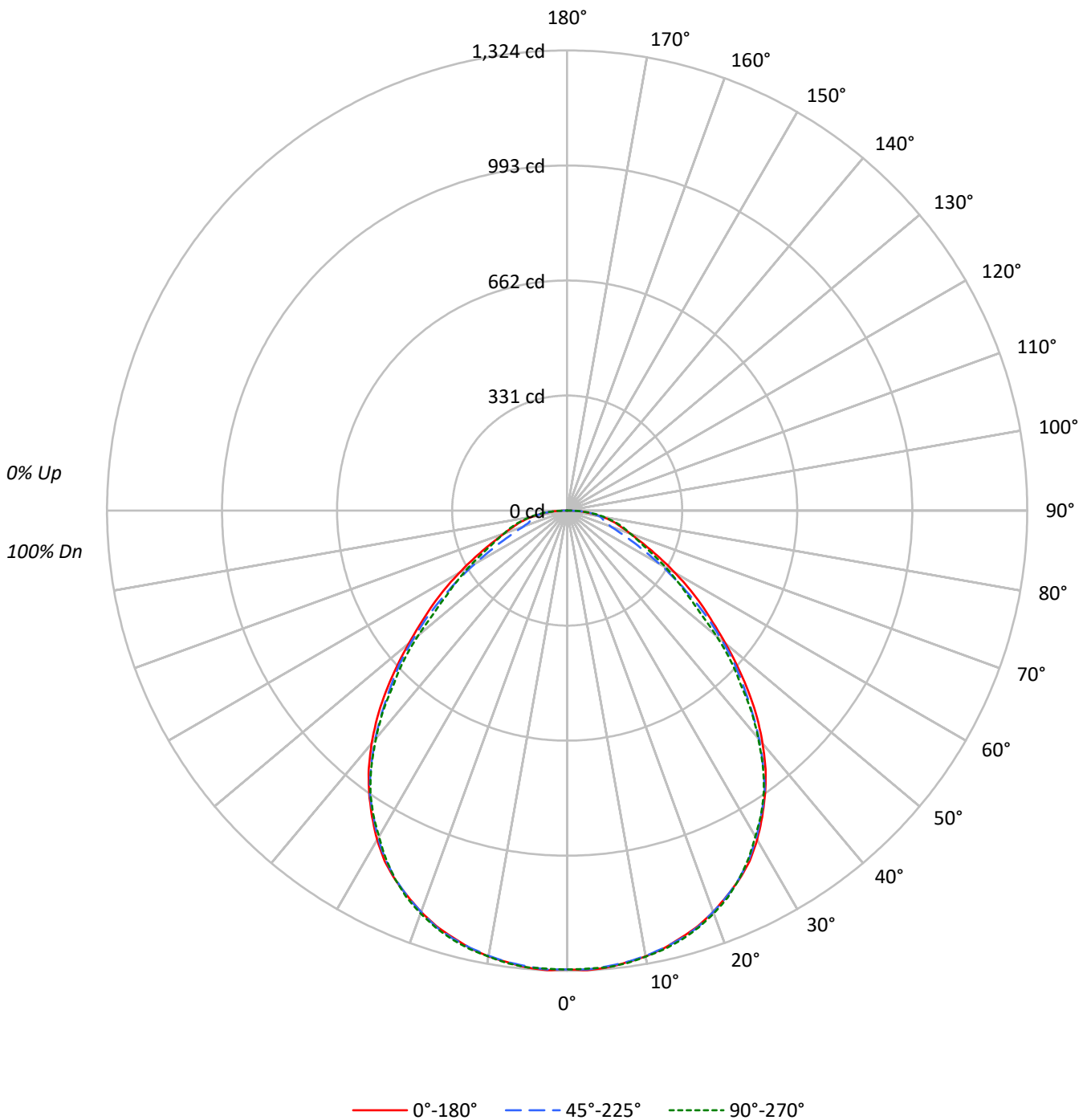
Input Watts (W): 25.296  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1776	1776	1776
5°	1782	1779	1782
10°	1780	1777	1780
15°	1771	1774	1779
20°	1759	1759	1766
25°	1739	1736	1737
30°	1699	1690	1682
35°	1632	1627	1621
40°	1537	1509	1502
45°	1406	1368	1342
50°	1243	1218	1171
55°	1106	1030	991
60°	963	824	884
65°	831	639	782
70°	758	523	756
75°	764	564	804
80°	796	734	847
85°	829	874	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.2	4.1
10°-20°	359.1	11.9
20°-30°	537.6	17.8
30°-40°	614.3	20.3
40°-50°	555.4	18.4
50°-60°	399.5	13.2
60°-70°	231.6	7.7
70°-80°	137.4	4.5
80°-90°	60.9	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°	1021.9	33.8
0°-40°	1636.2	54.2
0°-60°	2591.1	85.8
0°-90°	3021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1320	1318	1317	1315	1319	125
15°	1272	1274	1274	1272	1277	359
25°	1172	1170	1169	1167	1170	539
35°	994	989	991	978	987	619
45°	739	726	719	712	706	568
55°	471	462	439	428	422	422
65°	261	232	201	224	246	264
75°	147	123	108	134	155	155
85°	54	58	57	65	61	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1320.1	1320.1	1320.1	1320.1	1320.1
2.5°	1323.8	1319.1	1321.5	1320.1	1319.6
5°	1319.6	1317.7	1316.8	1314.9	1319.1
7.5°	1311.1	1309.7	1310.2	1310.6	1313.5
10°	1302.6	1300.3	1300.7	1301.7	1303.1
12.5°	1289.4	1288.0	1288.5	1289.4	1292.7
15°	1271.5	1273.9	1273.9	1272.5	1277.2
17.5°	1253.6	1253.1	1255.5	1251.3	1257.9
20°	1228.6	1229.1	1228.6	1229.1	1233.4
22.5°	1200.4	1202.7	1201.3	1201.3	1206.0
25°	1171.6	1170.2	1169.3	1166.9	1170.2
27.5°	1137.2	1134.4	1132.0	1127.3	1129.7
30°	1093.4	1093.9	1087.7	1083.5	1082.5
32.5°	1044.4	1044.4	1038.7	1035.4	1038.2
35°	993.5	988.8	990.6	978.4	986.9
37.5°	938.3	930.8	926.5	922.3	925.1
40°	875.2	865.3	859.2	850.7	855.4
42.5°	808.7	796.5	788.9	782.8	784.7
45°	739.0	726.3	718.7	712.1	705.5
47.5°	665.5	657.4	653.7	645.2	637.6
50°	593.8	591.0	582.0	575.0	559.4
52.5°	528.3	526.0	511.8	500.0	480.2
55°	471.3	462.3	439.2	427.9	422.3
57.5°	413.3	398.7	370.9	369.5	373.3
60°	357.7	339.8	306.3	313.9	328.5
62.5°	307.3	280.4	248.4	266.3	283.7
65°	261.1	231.9	200.8	224.3	245.5
67.5°	222.9	193.7	161.7	193.2	217.7
70°	192.8	163.1	132.9	169.2	192.3
72.5°	167.8	140.9	115.9	150.3	174.4
75°	147.0	123.0	108.4	133.8	154.6
77.5°	126.3	107.0	103.7	119.2	132.0
80°	102.7	93.8	94.7	104.6	109.3
82.5°	76.8	77.3	79.6	87.7	85.8
85°	53.7	58.0	56.6	65.0	60.8
87.5°	29.7	32.5	30.6	37.2	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)