

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: P293857

Luminaire Tested: **24GR-LD5-38-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293857  
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-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3405.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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

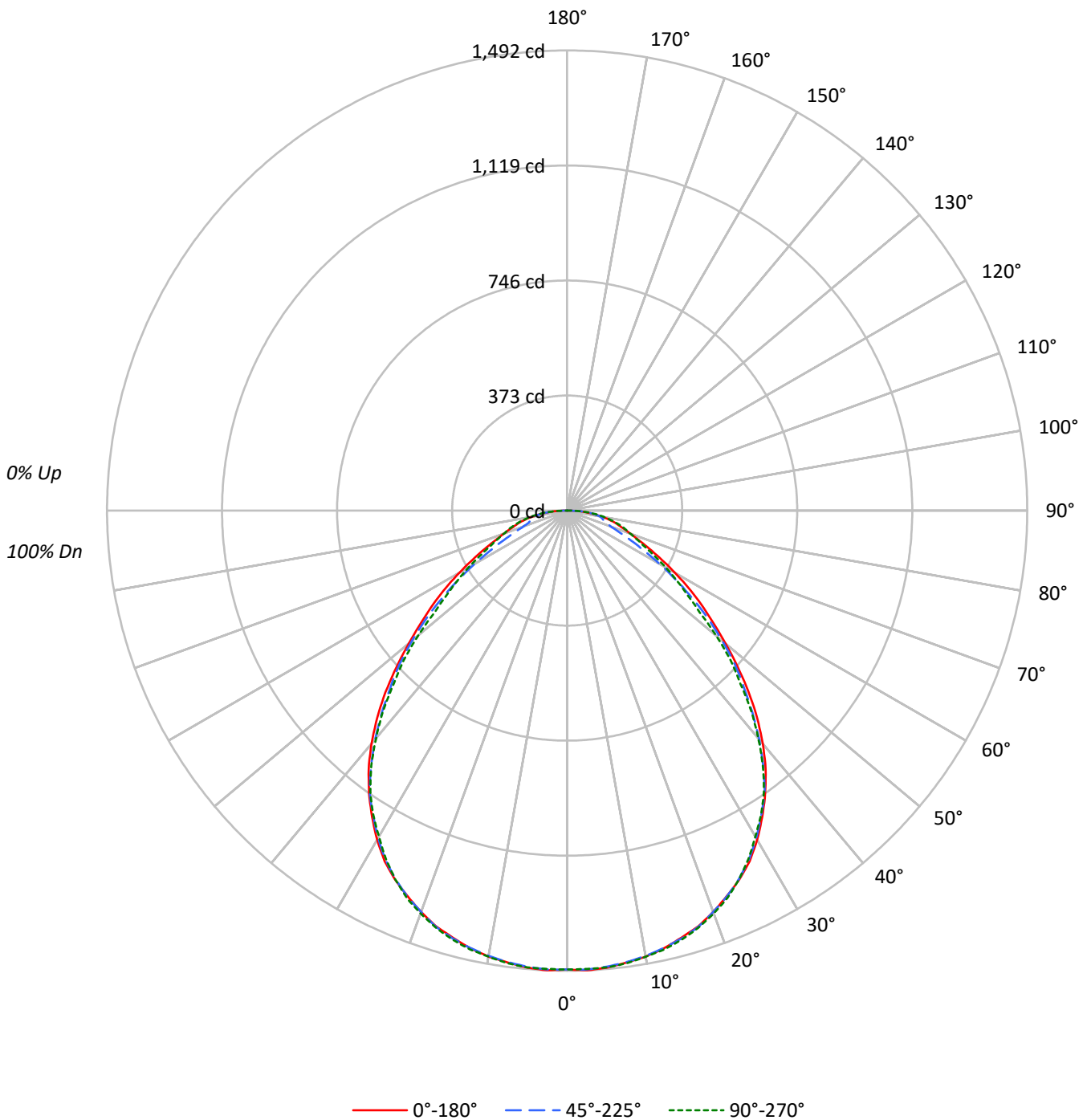
Input Watts (W): 25.668  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	68	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°	2002	2002	2002
5°	2009	2004	2008
10°	2006	2003	2007
15°	1996	2000	2005
20°	1983	1983	1990
25°	1960	1957	1958
30°	1915	1905	1896
35°	1839	1834	1827
40°	1733	1701	1693
45°	1585	1541	1513
50°	1401	1373	1320
55°	1246	1161	1116
60°	1085	929	996
65°	937	720	881
70°	855	589	852
75°	861	635	906
80°	897	828	955
85°	936	983	1057



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.1	4.1
10°-20°	404.8	11.9
20°-30°	605.9	17.8
30°-40°	692.3	20.3
40°-50°	626.0	18.4
50°-60°	450.3	13.2
60°-70°	261.1	7.7
70°-80°	154.9	4.5
80°-90°	68.6	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°	1151.8	33.8
0°-40°	1844.2	54.2
0°-60°	2920.5	85.8
0°-90°	3405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1488	1488	1488	1488	1488	
5°	1487	1485	1484	1482	1487	141
15°	1433	1436	1436	1434	1440	405
25°	1320	1319	1318	1315	1319	607
35°	1120	1114	1117	1103	1112	698
45°	833	819	810	803	795	640
55°	531	521	495	482	476	475
65°	294	261	226	253	277	297
75°	166	139	122	151	174	175
85°	61	65	64	73	68	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.9	1487.9	1487.9	1487.9	1487.9
2.5°	1492.1	1486.8	1489.5	1487.9	1487.3
5°	1487.3	1485.2	1484.1	1482.0	1486.8
7.5°	1477.8	1476.2	1476.7	1477.2	1480.4
10°	1468.2	1465.6	1466.1	1467.2	1468.7
12.5°	1453.3	1451.7	1452.3	1453.3	1457.1
15°	1433.2	1435.8	1435.8	1434.2	1439.5
17.5°	1413.0	1412.4	1415.1	1410.3	1417.7
20°	1384.8	1385.3	1384.8	1385.3	1390.1
22.5°	1352.9	1355.6	1354.0	1354.0	1359.3
25°	1320.5	1318.9	1317.9	1315.2	1318.9
27.5°	1281.8	1278.6	1275.9	1270.6	1273.3
30°	1232.4	1232.9	1226.0	1221.2	1220.1
32.5°	1177.1	1177.1	1170.7	1167.0	1170.2
35°	1119.8	1114.4	1116.6	1102.8	1112.3
37.5°	1057.6	1049.1	1044.3	1039.5	1042.7
40°	986.4	975.3	968.4	958.8	964.1
42.5°	911.5	897.7	889.2	882.3	884.4
45°	832.9	818.6	810.1	802.6	795.2
47.5°	750.0	741.0	736.8	727.2	718.7
50°	669.3	666.1	656.0	648.1	630.5
52.5°	595.5	592.8	576.9	563.6	541.3
55°	531.2	521.1	495.1	482.3	475.9
57.5°	465.9	449.4	418.0	416.5	420.7
60°	403.2	383.0	345.3	353.8	370.2
62.5°	346.3	316.1	279.9	300.1	319.8
65°	294.3	261.3	226.3	252.8	276.8
67.5°	251.3	218.3	182.2	217.8	245.4
70°	217.3	183.8	149.8	190.7	216.7
72.5°	189.1	158.8	130.7	169.5	196.5
75°	165.7	138.6	122.2	150.9	174.2
77.5°	142.4	120.6	116.9	134.4	148.7
80°	115.8	105.7	106.8	117.9	123.2
82.5°	86.6	87.1	89.8	98.8	96.7
85°	60.6	65.3	63.7	73.3	68.5
87.5°	33.5	36.7	34.5	42.0	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)