

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: P219175

Luminaire Tested: **24GR-LD5-34-A125-UNV-L940-CD1-U**

Issue Date: 3/12/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P219175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/12/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A125-UNV-L940-CD1-U  
Description: METALUX GR 2X4 LED TROFFER WITH A125 LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3030.9 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')  
CIE Type: Direct

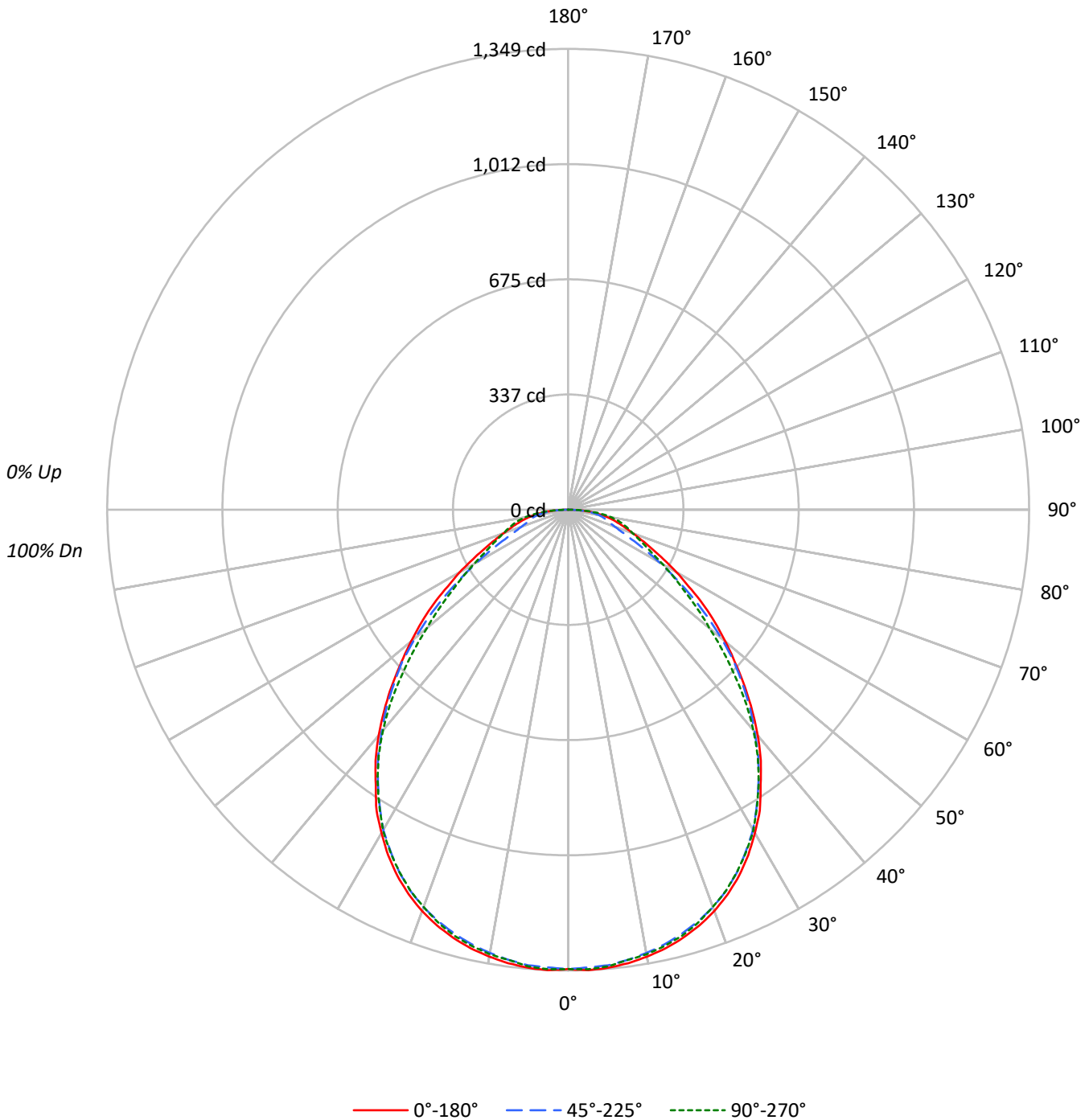
Input Watts (W): 26.756  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	2060	2060	2060
5°	2070	2058	2063
10°	2066	2049	2055
15°	2058	2037	2046
20°	2038	2018	2017
25°	1999	1977	1976
30°	1933	1913	1917
35°	1836	1815	1818
40°	1726	1696	1686
45°	1582	1561	1499
50°	1430	1391	1286
55°	1284	1169	1109
60°	1124	941	975
65°	981	740	898
70°	897	646	897
75°	898	687	989
80°	975	810	1127
85°	1070	912	1209



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.3	4.2
10°-20°	363.4	12.0
20°-30°	538.9	17.8
30°-40°	607.9	20.1
40°-50°	550.6	18.2
50°-60°	397.2	13.1
60°-70°	237.2	7.8
70°-80°	146.6	4.8
80°-90°	61.8	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°	1029.6	34.0
0°-40°	1637.5	54.0
0°-60°	2585.3	85.3
0°-90°	3030.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3030.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1346	1344	1339	1337	1342	128
15°	1298	1290	1285	1285	1290	366
25°	1183	1176	1170	1166	1169	543
35°	982	980	971	971	972	614
45°	730	726	721	703	692	563
55°	481	466	438	416	415	429
65°	271	238	204	232	248	272
75°	152	132	116	145	167	162
85°	61	53	52	68	69	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1344.8	1344.8	1344.8	1344.8	1344.8
2.5°	1349.4	1345.6	1341.0	1343.8	1346.2
5°	1346.2	1344.3	1338.7	1337.2	1341.9
7.5°	1339.1	1334.5	1329.3	1331.6	1329.7
10°	1328.4	1324.1	1317.6	1318.0	1321.3
12.5°	1315.3	1310.1	1303.1	1305.0	1307.7
15°	1297.9	1290.0	1284.8	1285.3	1290.4
17.5°	1275.9	1269.8	1263.3	1264.7	1267.0
20°	1250.6	1247.3	1238.0	1235.2	1237.5
22.5°	1218.8	1212.7	1207.5	1206.2	1206.6
25°	1182.8	1176.2	1170.1	1165.9	1169.2
27.5°	1140.6	1134.9	1127.0	1125.7	1128.4
30°	1092.8	1088.6	1081.6	1079.7	1083.9
32.5°	1044.1	1037.2	1027.3	1027.3	1028.2
35°	981.9	980.5	970.6	971.1	972.1
37.5°	925.7	919.2	913.5	907.9	910.7
40°	863.4	856.0	848.4	844.7	843.3
42.5°	796.4	790.9	787.6	774.0	770.7
45°	730.4	725.8	720.6	702.8	692.0
47.5°	663.0	662.1	657.9	626.5	615.8
50°	600.3	598.9	583.9	550.7	539.8
52.5°	540.8	531.4	511.8	479.0	477.1
55°	480.8	465.9	437.8	416.2	415.3
57.5°	417.6	399.9	371.3	359.6	365.7
60°	367.0	340.0	307.2	308.6	318.4
62.5°	314.7	284.2	251.9	265.9	277.7
65°	270.6	238.3	204.2	231.8	247.7
67.5°	232.2	202.3	169.5	206.5	222.0
70°	200.4	176.0	144.2	183.1	200.4
72.5°	175.1	152.6	127.8	164.3	184.5
75°	151.7	131.6	116.1	144.7	167.2
77.5°	131.6	111.9	104.9	127.8	149.8
80°	110.5	92.7	91.8	111.5	127.8
82.5°	86.2	74.0	74.0	93.1	103.0
85°	60.9	53.4	51.9	67.9	68.8
87.5°	31.4	29.9	27.2	35.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)