

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: P293711

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293711  
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-LD5-30-A125-UNV-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2883.0 lumens  
Efficiency: N/A  
Efficacy: 145.5 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

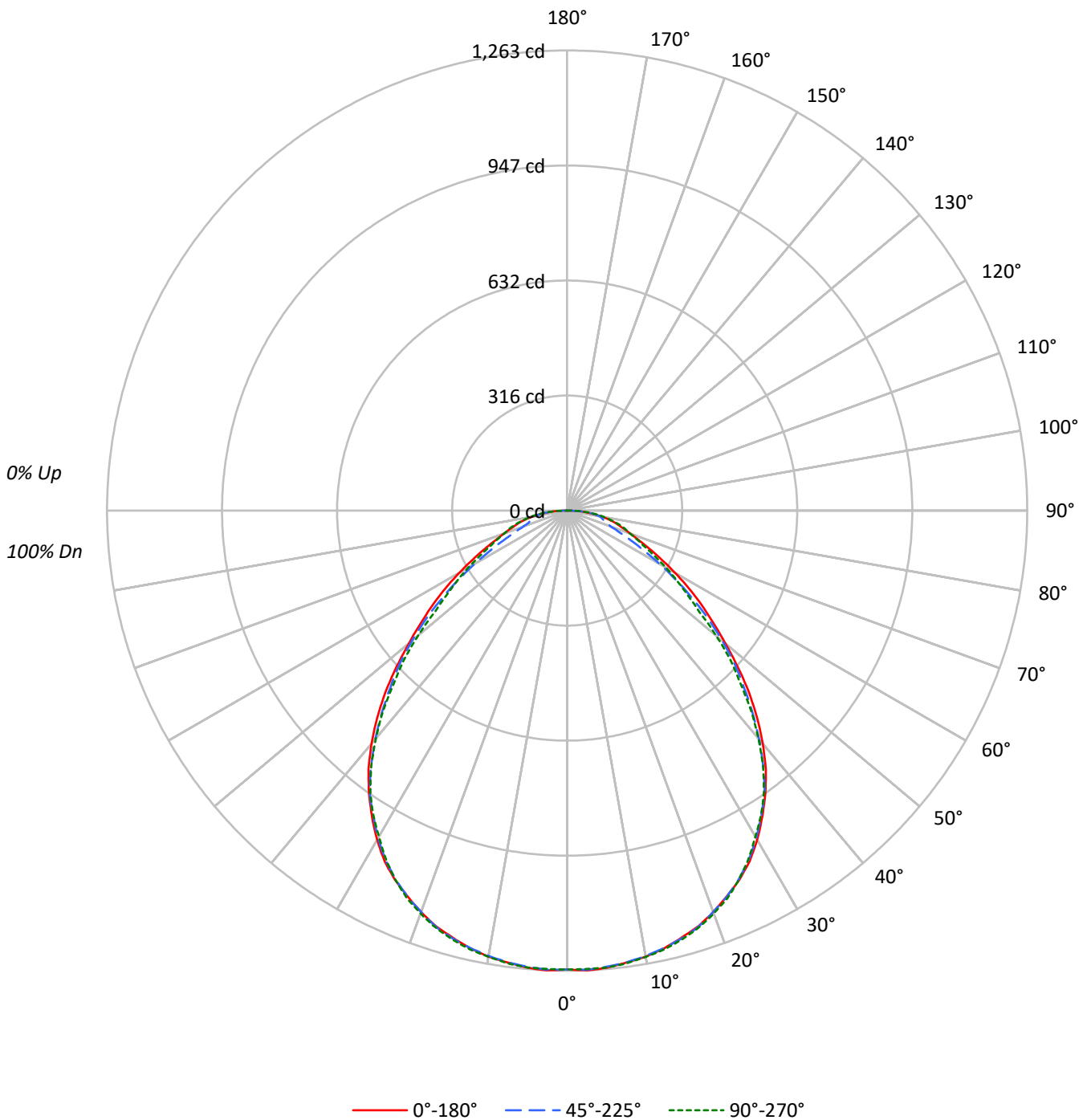
Input Watts (W): 19.809  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1695	1695	1695
5°	1701	1697	1700
10°	1698	1696	1699
15°	1690	1693	1698
20°	1679	1679	1685
25°	1660	1656	1658
30°	1621	1613	1605
35°	1557	1553	1547
40°	1467	1440	1434
45°	1342	1305	1281
50°	1186	1163	1118
55°	1055	983	945
60°	919	787	844
65°	793	610	746
70°	724	499	722
75°	729	538	767
80°	759	700	808
85°	792	834	895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.5	4.1
10°-20°	342.7	11.9
20°-30°	513.0	17.8
30°-40°	586.2	20.3
40°-50°	530.0	18.4
50°-60°	381.3	13.2
60°-70°	221.1	7.7
70°-80°	131.1	4.5
80°-90°	58.1	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°	975.2	33.8
0°-40°	1561.5	54.2
0°-60°	2472.8	85.8
0°-90°	2883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2883.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1259	1258	1257	1255	1259	120
15°	1213	1216	1216	1214	1219	343
25°	1118	1117	1116	1114	1117	514
35°	948	944	945	934	942	591
45°	705	693	686	680	673	542
55°	450	441	419	408	403	402
65°	249	221	192	214	234	252
75°	140	117	103	128	148	148
85°	51	55	54	62	58	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1259.8	1259.8	1259.8	1259.8	1259.8
2.5°	1263.4	1258.9	1261.1	1259.8	1259.3
5°	1259.3	1257.5	1256.6	1254.8	1258.9
7.5°	1251.2	1249.9	1250.3	1250.8	1253.5
10°	1243.1	1240.9	1241.3	1242.2	1243.6
12.5°	1230.5	1229.2	1229.6	1230.5	1233.7
15°	1213.4	1215.7	1215.7	1214.3	1218.8
17.5°	1196.4	1195.9	1198.2	1194.1	1200.4
20°	1172.5	1173.0	1172.5	1173.0	1177.0
22.5°	1145.5	1147.8	1146.4	1146.4	1150.9
25°	1118.1	1116.7	1115.8	1113.6	1116.7
27.5°	1085.3	1082.6	1080.3	1075.8	1078.1
30°	1043.4	1043.9	1038.0	1034.0	1033.1
32.5°	996.7	996.7	991.3	988.1	990.8
35°	948.1	943.6	945.4	933.7	941.8
37.5°	895.5	888.3	884.2	880.2	882.9
40°	835.2	825.8	819.9	811.8	816.3
42.5°	771.8	760.1	752.9	747.0	748.8
45°	705.2	693.1	685.9	679.6	673.3
47.5°	635.1	627.4	623.8	615.7	608.5
50°	566.7	564.0	555.5	548.7	533.9
52.5°	504.2	501.9	488.4	477.2	458.3
55°	449.8	441.2	419.2	408.4	403.0
57.5°	394.4	380.5	354.0	352.6	356.2
60°	341.4	324.3	292.3	299.5	313.5
62.5°	293.2	267.6	237.0	254.1	270.8
65°	249.2	221.3	191.6	214.1	234.3
67.5°	212.7	184.9	154.3	184.4	207.8
70°	184.0	155.6	126.8	161.5	183.5
72.5°	160.1	134.5	110.6	143.5	166.4
75°	140.3	117.4	103.4	127.7	147.5
77.5°	120.5	102.1	98.9	113.8	125.9
80°	98.0	89.5	90.4	99.8	104.3
82.5°	73.3	73.8	76.0	83.7	81.9
85°	51.3	55.3	54.0	62.1	58.0
87.5°	28.3	31.0	29.2	35.5	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)