

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: P293793

Luminaire Tested: **24GR-LD5-30-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293793  
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-L93050-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: 2803.0 lumens  
Efficiency: N/A  
Efficacy: 136.6 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

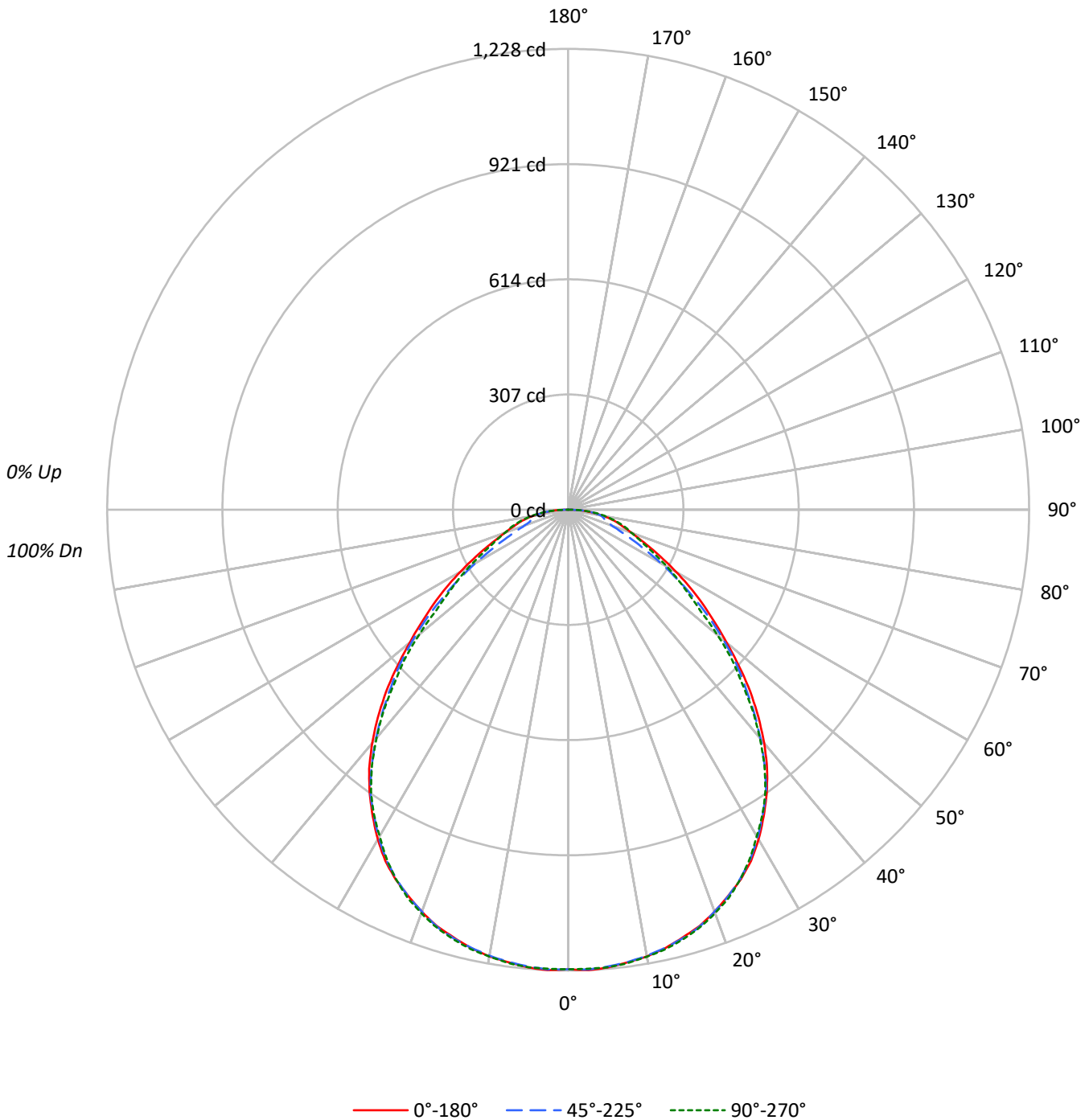
Input Watts (W): 20.51487  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293793

CATALOG NUMBER: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P293793

CATALOG NUMBER: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-4000K

**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		69	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°	1648	1648	1648
5°	1654	1650	1653
10°	1651	1649	1652
15°	1643	1646	1651
20°	1632	1632	1639
25°	1614	1611	1612
30°	1576	1568	1560
35°	1514	1510	1504
40°	1426	1400	1394
45°	1305	1269	1246
50°	1153	1130	1086
55°	1026	956	919
60°	893	765	820
65°	771	593	725
70°	703	485	702
75°	709	523	745
80°	738	681	786
85°	769	810	871



TEST NUMBER: P293793

CATALOG NUMBER: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	4.1
10°-20°	333.2	11.9
20°-30°	498.8	17.8
30°-40°	569.9	20.3
40°-50°	515.3	18.4
50°-60°	370.7	13.2
60°-70°	214.9	7.7
70°-80°	127.5	4.5
80°-90°	56.5	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°	948.2	33.8
0°-40°	1518.1	54.2
0°-60°	2404.1	85.8
0°-90°	2803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1225	1225	1225	1225	1225	
5°	1224	1223	1222	1220	1224	116
15°	1180	1182	1182	1181	1185	333
25°	1087	1086	1085	1083	1086	500
35°	922	917	919	908	916	575
45°	686	674	667	661	655	527
55°	437	429	408	397	392	391
65°	242	215	186	208	228	245
75°	136	114	101	124	143	144
85°	50	54	52	60	56	53
90°	0	0	0	0	0	



TEST NUMBER: P293793

CATALOG NUMBER: 24GR-LD5-30-A125-UNV-L93050-W2A1-U-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1224.8	1224.8	1224.8	1224.8	1224.8
2.5°	1228.3	1223.9	1226.1	1224.8	1224.4
5°	1224.4	1222.6	1221.8	1220.0	1223.9
7.5°	1216.5	1215.2	1215.6	1216.1	1218.7
10°	1208.6	1206.4	1206.9	1207.8	1209.1
12.5°	1196.4	1195.1	1195.5	1196.4	1199.5
15°	1179.8	1182.0	1182.0	1180.6	1185.0
17.5°	1163.2	1162.7	1164.9	1161.0	1167.1
20°	1140.0	1140.4	1140.0	1140.4	1144.4
22.5°	1113.7	1115.9	1114.6	1114.6	1119.0
25°	1087.1	1085.8	1084.9	1082.7	1085.8
27.5°	1055.2	1052.5	1050.3	1046.0	1048.2
30°	1014.5	1014.9	1009.2	1005.3	1004.4
32.5°	969.0	969.0	963.8	960.7	963.3
35°	921.8	917.4	919.2	907.8	915.7
37.5°	870.6	863.6	859.7	855.8	858.4
40°	812.0	802.8	797.2	789.3	793.7
42.5°	750.4	739.0	732.0	726.3	728.1
45°	685.7	673.8	666.8	660.7	654.6
47.5°	617.4	610.0	606.5	598.6	591.6
50°	551.0	548.3	540.0	533.5	519.0
52.5°	490.2	488.0	474.9	464.0	445.6
55°	437.3	429.0	407.5	397.0	391.8
57.5°	383.5	369.9	344.1	342.8	346.3
60°	331.9	315.3	284.2	291.2	304.8
62.5°	285.1	260.2	230.4	247.1	263.2
65°	242.3	215.1	186.3	208.1	227.8
67.5°	206.8	179.7	150.0	179.3	202.0
70°	178.8	151.3	123.3	157.0	178.4
72.5°	155.7	130.7	107.6	139.5	161.8
75°	136.4	114.1	100.6	124.2	143.4
77.5°	117.2	99.3	96.2	110.6	122.4
80°	95.3	87.0	87.9	97.1	101.4
82.5°	71.3	71.7	73.9	81.3	79.6
85°	49.8	53.8	52.5	60.3	56.4
87.5°	27.5	30.2	28.4	34.5	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)