

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: P293796

Luminaire Tested: **24GR-LD5-34-A125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293796  
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-LD5-34-A125-UNV-L93050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2721.0 lumens  
Efficiency: N/A  
Efficacy: 115.8 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

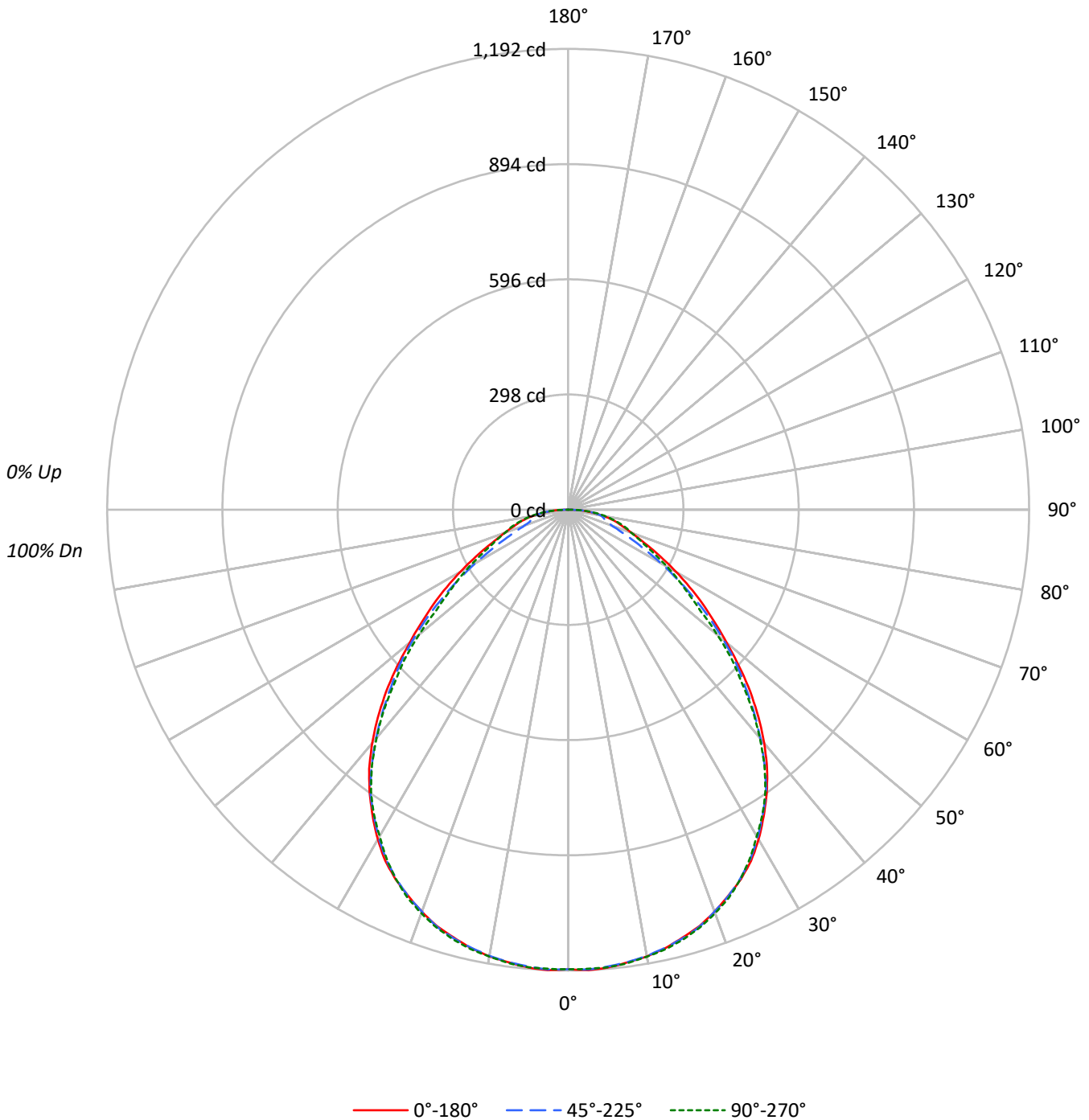
Input Watts (W): 23.499333  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1600	1600	1600
5°	1605	1602	1605
10°	1603	1601	1604
15°	1595	1598	1602
20°	1584	1584	1591
25°	1567	1563	1565
30°	1530	1522	1515
35°	1470	1466	1460
40°	1385	1359	1353
45°	1267	1232	1209
50°	1120	1097	1055
55°	996	928	892
60°	867	742	796
65°	749	576	704
70°	683	471	681
75°	688	507	724
80°	717	661	763
85°	747	786	846



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.8	4.1
10°-20°	323.5	11.9
20°-30°	484.2	17.8
30°-40°	553.3	20.3
40°-50°	500.2	18.4
50°-60°	359.9	13.2
60°-70°	208.6	7.7
70°-80°	123.8	4.5
80°-90°	54.8	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°	920.4	33.8
0°-40°	1473.7	54.2
0°-60°	2333.8	85.8
0°-90°	2721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2721.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1189	1187	1186	1184	1188	113
15°	1145	1147	1147	1146	1150	323
25°	1055	1054	1053	1051	1054	485
35°	895	891	892	881	889	558
45°	666	654	647	641	636	511
55°	424	416	396	385	380	380
65°	235	209	181	202	221	237
75°	132	111	98	121	139	140
85°	48	52	51	59	55	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1189.0	1189.0	1189.0	1189.0	1189.0
2.5°	1192.4	1188.1	1190.3	1189.0	1188.6
5°	1188.6	1186.9	1186.0	1184.3	1188.1
7.5°	1180.9	1179.6	1180.1	1180.5	1183.0
10°	1173.3	1171.2	1171.6	1172.4	1173.7
12.5°	1161.4	1160.1	1160.5	1161.4	1164.4
15°	1145.3	1147.4	1147.4	1146.1	1150.4
17.5°	1129.1	1128.7	1130.8	1127.0	1133.0
20°	1106.6	1107.1	1106.6	1107.1	1110.9
22.5°	1081.2	1083.3	1082.0	1082.0	1086.3
25°	1055.3	1054.0	1053.1	1051.0	1054.0
27.5°	1024.3	1021.7	1019.6	1015.4	1017.5
30°	984.8	985.2	979.7	975.9	975.0
32.5°	940.7	940.7	935.6	932.6	935.1
35°	894.8	890.6	892.3	881.2	888.9
37.5°	845.1	838.4	834.5	830.7	833.3
40°	788.3	779.4	773.8	766.2	770.4
42.5°	728.4	717.4	710.6	705.1	706.8
45°	665.6	654.1	647.3	641.4	635.5
47.5°	599.4	592.2	588.8	581.1	574.3
50°	534.9	532.3	524.2	517.9	503.9
52.5°	475.8	473.7	461.0	450.4	432.6
55°	424.5	416.4	395.6	385.4	380.3
57.5°	372.3	359.1	334.1	332.8	336.2
60°	322.2	306.1	275.9	282.7	295.9
62.5°	276.8	252.6	223.7	239.8	255.5
65°	235.2	208.8	180.8	202.1	221.2
67.5°	200.8	174.5	145.6	174.0	196.1
70°	173.6	146.9	119.7	152.4	173.2
72.5°	151.1	126.9	104.4	135.4	157.1
75°	132.4	110.8	97.6	120.6	139.2
77.5°	113.8	96.4	93.4	107.4	118.9
80°	92.5	84.5	85.3	94.2	98.5
82.5°	69.2	69.6	71.7	79.0	77.3
85°	48.4	52.2	50.9	58.6	54.8
87.5°	26.7	29.3	27.6	33.5	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)