

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: P293838

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293838  
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-L92765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2613.0 lumens  
Efficiency: N/A  
Efficacy: 130.1 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

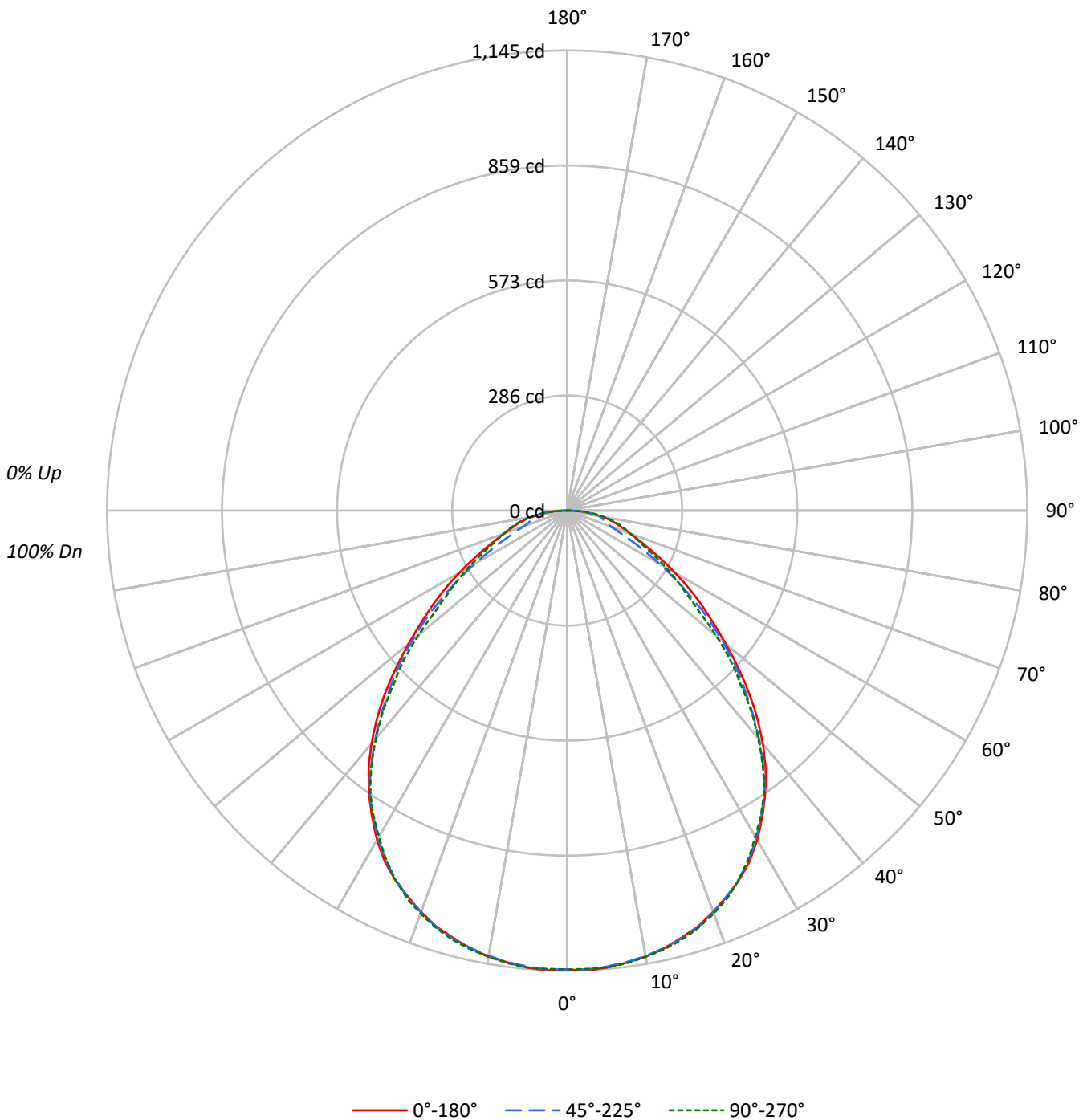
Input Watts (W): 20.088  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1536	1536	1536
5°	1542	1538	1541
10°	1539	1537	1540
15°	1532	1535	1539
20°	1522	1522	1527
25°	1504	1501	1503
30°	1469	1462	1455
35°	1411	1407	1402
40°	1330	1305	1300
45°	1216	1183	1161
50°	1075	1054	1013
55°	956	891	857
60°	833	713	765
65°	719	553	676
70°	656	452	654
75°	661	488	695
80°	689	635	733
85°	718	755	812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.3	4.1
10°-20°	310.6	11.9
20°-30°	465.0	17.8
30°-40°	531.3	20.3
40°-50°	480.4	18.4
50°-60°	345.6	13.2
60°-70°	200.3	7.7
70°-80°	118.8	4.5
80°-90°	52.6	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°	883.9	33.8
0°-40°	1415.2	54.2
0°-60°	2241.2	85.8
0°-90°	2613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1141	1140	1139	1137	1141	108
15°	1100	1102	1102	1101	1105	310
25°	1013	1012	1011	1009	1012	466
35°	859	855	857	846	854	536
45°	639	628	622	616	610	491
55°	408	400	380	370	365	365
65°	226	201	174	194	212	228
75°	127	106	94	116	134	134
85°	46	50	49	56	53	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1141.8	1141.8	1141.8	1141.8	1141.8
2.5°	1145.1	1141.0	1143.0	1141.8	1141.4
5°	1141.4	1139.8	1138.9	1137.3	1141.0
7.5°	1134.0	1132.8	1133.2	1133.6	1136.1
10°	1126.7	1124.7	1125.1	1125.9	1127.1
12.5°	1115.3	1114.1	1114.5	1115.3	1118.1
15°	1099.8	1101.8	1101.8	1100.6	1104.7
17.5°	1084.3	1083.9	1085.9	1082.3	1088.0
20°	1062.7	1063.1	1062.7	1063.1	1066.8
22.5°	1038.3	1040.3	1039.1	1039.1	1043.1
25°	1013.4	1012.2	1011.3	1009.3	1012.2
27.5°	983.6	981.2	979.1	975.1	977.1
30°	945.7	946.1	940.8	937.2	936.3
32.5°	903.3	903.3	898.4	895.6	898.0
35°	859.3	855.2	856.9	846.3	853.6
37.5°	811.6	805.1	801.4	797.7	800.2
40°	757.0	748.4	743.1	735.8	739.9
42.5°	699.5	688.9	682.4	677.1	678.7
45°	639.2	628.2	621.6	615.9	610.2
47.5°	575.6	568.7	565.4	558.1	551.5
50°	513.6	511.2	503.4	497.3	483.9
52.5°	457.0	454.9	442.7	432.5	415.4
55°	407.6	399.9	379.9	370.1	365.2
57.5°	357.5	344.9	320.8	319.6	322.8
60°	309.4	293.9	265.0	271.5	284.1
62.5°	265.8	242.5	214.8	230.3	245.4
65°	225.8	200.6	173.7	194.0	212.4
67.5°	192.8	167.5	139.8	167.1	188.3
70°	166.7	141.0	115.0	146.3	166.3
72.5°	145.1	121.9	100.3	130.0	150.8
75°	127.2	106.4	93.8	115.8	133.7
77.5°	109.2	92.5	89.7	103.1	114.1
80°	88.9	81.1	81.9	90.5	94.6
82.5°	66.4	66.9	68.9	75.8	74.2
85°	46.5	50.1	48.9	56.3	52.6
87.5°	25.7	28.1	26.5	32.2	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)