

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: P293718

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293718  
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-6500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3192.0 lumens  
Efficiency: N/A  
Efficacy: 152.5 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

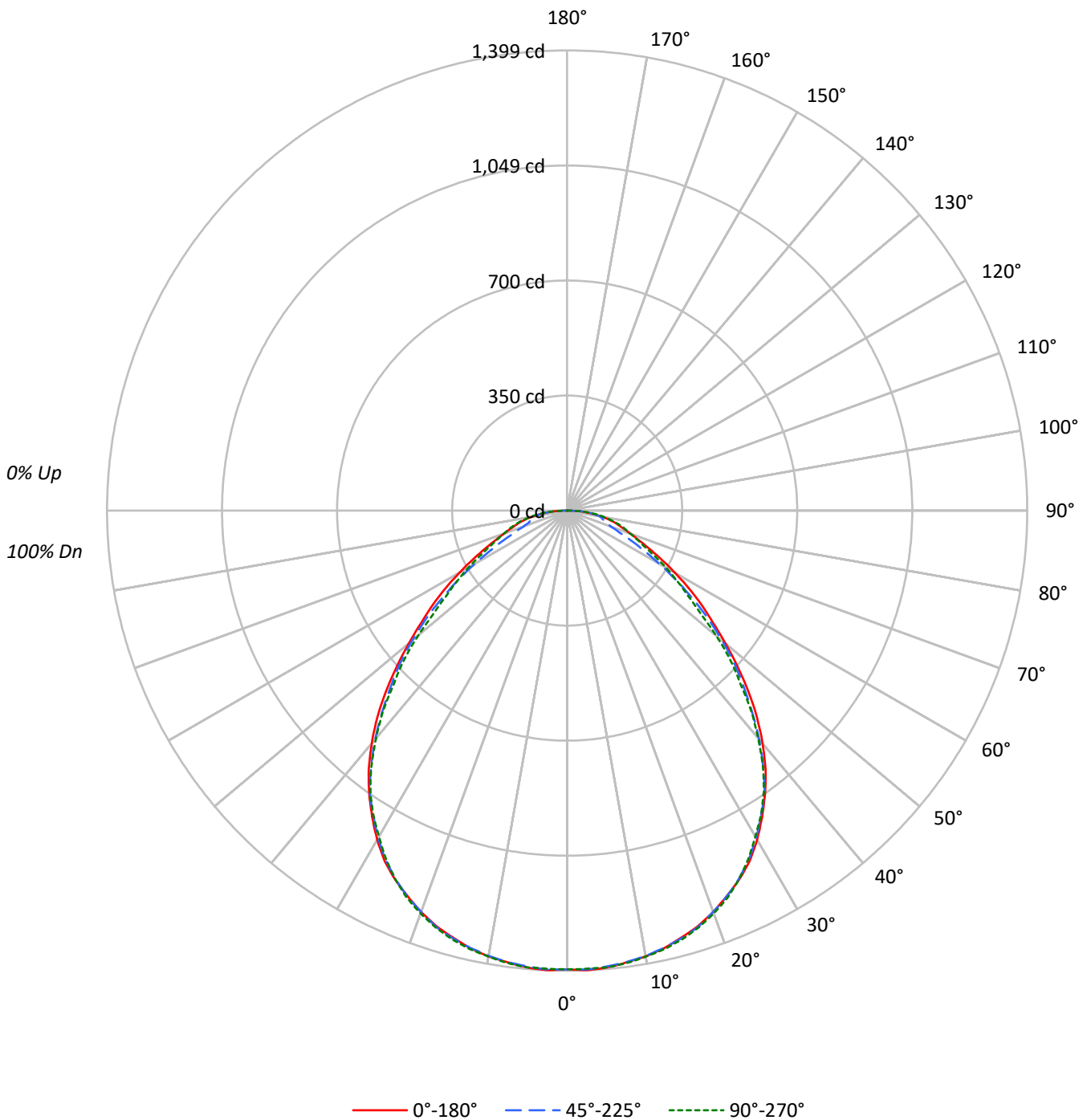
Input Watts (W): 20.925  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1877	1877	1877
5°	1883	1879	1883
10°	1881	1878	1881
15°	1871	1875	1880
20°	1859	1859	1866
25°	1838	1834	1836
30°	1795	1786	1777
35°	1724	1719	1713
40°	1624	1594	1587
45°	1486	1445	1418
50°	1313	1287	1237
55°	1168	1089	1047
60°	1017	871	934
65°	878	675	826
70°	801	552	799
75°	808	595	849
80°	841	776	895
85°	877	923	991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.3	4.1
10°-20°	379.5	11.9
20°-30°	568.0	17.8
30°-40°	649.0	20.3
40°-50°	586.8	18.4
50°-60°	422.2	13.2
60°-70°	244.7	7.7
70°-80°	145.2	4.5
80°-90°	64.3	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°	1079.8	33.8
0°-40°	1728.8	54.2
0°-60°	2737.8	85.8
0°-90°	3192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1395	1395	1395	1395	1395	
5°	1394	1392	1391	1389	1394	132
15°	1344	1346	1346	1344	1350	379
25°	1238	1236	1235	1233	1236	569
35°	1050	1045	1047	1034	1043	654
45°	781	767	759	752	745	600
55°	498	488	464	452	446	445
65°	276	245	212	237	259	279
75°	155	130	114	141	163	164
85°	57	61	60	69	64	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1394.8	1394.8	1394.8	1394.8	1394.8
2.5°	1398.8	1393.8	1396.3	1394.8	1394.3
5°	1394.3	1392.3	1391.3	1389.3	1393.8
7.5°	1385.3	1383.8	1384.3	1384.8	1387.8
10°	1376.4	1373.9	1374.4	1375.4	1376.9
12.5°	1362.4	1360.9	1361.4	1362.4	1365.9
15°	1343.5	1346.0	1346.0	1344.5	1349.5
17.5°	1324.6	1324.1	1326.6	1322.1	1329.1
20°	1298.2	1298.7	1298.2	1298.7	1303.2
22.5°	1268.3	1270.8	1269.3	1269.3	1274.3
25°	1237.9	1236.4	1235.4	1233.0	1236.4
27.5°	1201.6	1198.6	1196.1	1191.1	1193.6
30°	1155.3	1155.8	1149.3	1144.8	1143.8
32.5°	1103.5	1103.5	1097.5	1094.0	1097.0
35°	1049.7	1044.7	1046.7	1033.8	1042.7
37.5°	991.4	983.5	979.0	974.5	977.5
40°	924.7	914.3	907.8	898.8	903.8
42.5°	854.5	841.6	833.6	827.1	829.1
45°	780.8	767.4	759.4	752.4	745.4
47.5°	703.1	694.7	690.7	681.7	673.7
50°	627.4	624.4	615.0	607.5	591.1
52.5°	558.2	555.7	540.8	528.3	507.4
55°	498.0	488.5	464.1	452.1	446.2
57.5°	436.7	421.3	391.9	390.4	394.4
60°	378.0	359.0	323.7	331.6	347.1
62.5°	324.7	296.3	262.4	281.3	299.8
65°	275.9	245.0	212.1	237.0	259.4
67.5°	235.5	204.7	170.8	204.2	230.1
70°	203.7	172.3	140.4	178.8	203.2
72.5°	177.3	148.9	122.5	158.9	184.2
75°	155.4	130.0	114.5	141.4	163.3
77.5°	133.5	113.0	109.6	126.0	139.4
80°	108.6	99.1	100.1	110.5	115.5
82.5°	81.2	81.7	84.2	92.6	90.6
85°	56.8	61.2	59.8	68.7	64.2
87.5°	31.4	34.4	32.4	39.3	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)