

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: P293850

Luminaire Tested: **24GR-LD5-34-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293850  
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-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3233.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

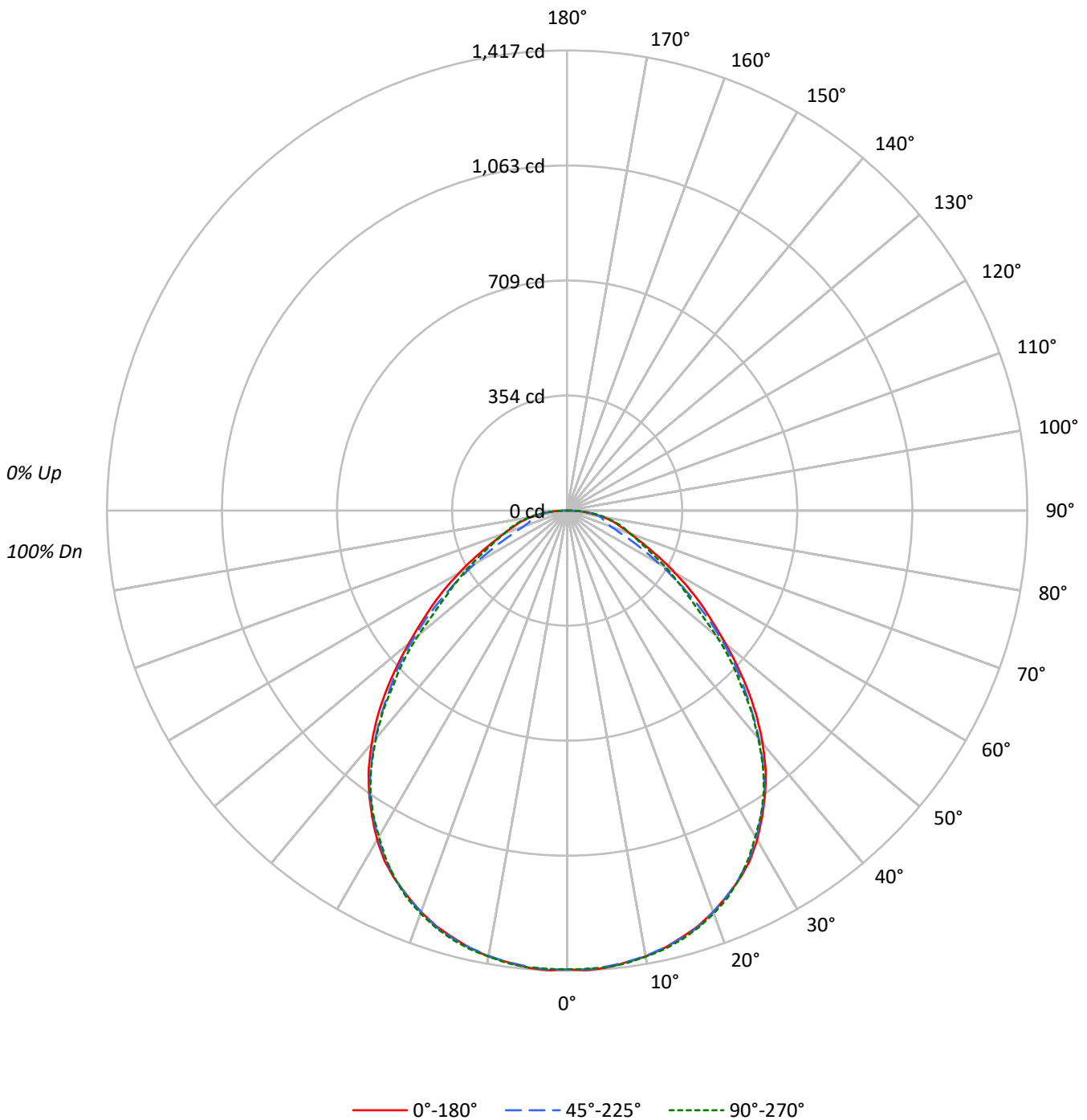
Input Watts (W): 23.529  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1901	1901	1901
5°	1907	1903	1907
10°	1905	1902	1905
15°	1896	1899	1904
20°	1883	1883	1890
25°	1861	1858	1859
30°	1818	1809	1800
35°	1746	1741	1735
40°	1645	1615	1608
45°	1505	1463	1437
50°	1330	1304	1253
55°	1183	1103	1060
60°	1030	882	946
65°	890	684	837
70°	812	559	810
75°	818	603	860
80°	852	786	907
85°	888	934	1005



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.0	4.1
10°-20°	384.3	11.9
20°-30°	575.3	17.8
30°-40°	657.4	20.3
40°-50°	594.3	18.4
50°-60°	427.6	13.2
60°-70°	247.9	7.7
70°-80°	147.1	4.5
80°-90°	65.1	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°	1093.6	33.8
0°-40°	1751.0	54.2
0°-60°	2772.9	85.8
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1412	1410	1409	1407	1412	134
15°	1361	1363	1363	1362	1367	384
25°	1254	1252	1251	1249	1252	576
35°	1063	1058	1060	1047	1056	663
45°	791	777	769	762	755	608
55°	504	495	470	458	452	451
65°	279	248	215	240	263	282
75°	157	132	116	143	165	166
85°	58	62	60	70	65	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1416.7	1411.7	1414.2	1412.7	1412.2
5°	1412.2	1410.2	1409.2	1407.2	1411.7
7.5°	1403.1	1401.6	1402.1	1402.6	1405.6
10°	1394.0	1391.5	1392.0	1393.0	1394.6
12.5°	1379.9	1378.4	1378.9	1379.9	1383.5
15°	1360.8	1363.3	1363.3	1361.8	1366.8
17.5°	1341.6	1341.1	1343.6	1339.1	1346.1
20°	1314.9	1315.4	1314.9	1315.4	1319.9
22.5°	1284.6	1287.1	1285.6	1285.6	1290.7
25°	1253.8	1252.3	1251.3	1248.8	1252.3
27.5°	1217.0	1214.0	1211.5	1206.4	1208.9
30°	1170.1	1170.6	1164.1	1159.5	1158.5
32.5°	1117.7	1117.7	1111.6	1108.1	1111.1
35°	1063.2	1058.1	1060.2	1047.0	1056.1
37.5°	1004.2	996.1	991.6	987.0	990.1
40°	936.6	926.0	919.4	910.4	915.4
42.5°	865.5	852.4	844.3	837.7	839.8
45°	790.8	777.2	769.1	762.1	755.0
47.5°	712.2	703.6	699.5	690.5	682.4
50°	635.5	632.5	622.9	615.3	598.7
52.5°	565.4	562.9	547.7	535.1	513.9
55°	504.4	494.8	470.1	458.0	451.9
57.5°	442.3	426.7	396.9	395.4	399.5
60°	382.8	363.6	327.8	335.9	351.5
62.5°	328.8	300.1	265.8	285.0	303.6
65°	279.4	248.1	214.9	240.1	262.8
67.5°	238.6	207.3	173.0	206.8	233.0
70°	206.3	174.5	142.2	181.1	205.8
72.5°	179.6	150.8	124.1	160.9	186.6
75°	157.4	131.6	116.0	143.2	165.4
77.5°	135.2	114.5	111.0	127.6	141.2
80°	110.0	100.4	101.4	112.0	117.0
82.5°	82.2	82.7	85.2	93.8	91.8
85°	57.5	62.0	60.5	69.6	65.1
87.5°	31.8	34.8	32.8	39.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)