

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: P293720

Luminaire Tested: **24GR-LD5-34-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293720  
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-L82765-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3302.0 lumens  
Efficiency: N/A  
Efficacy: 144.9 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

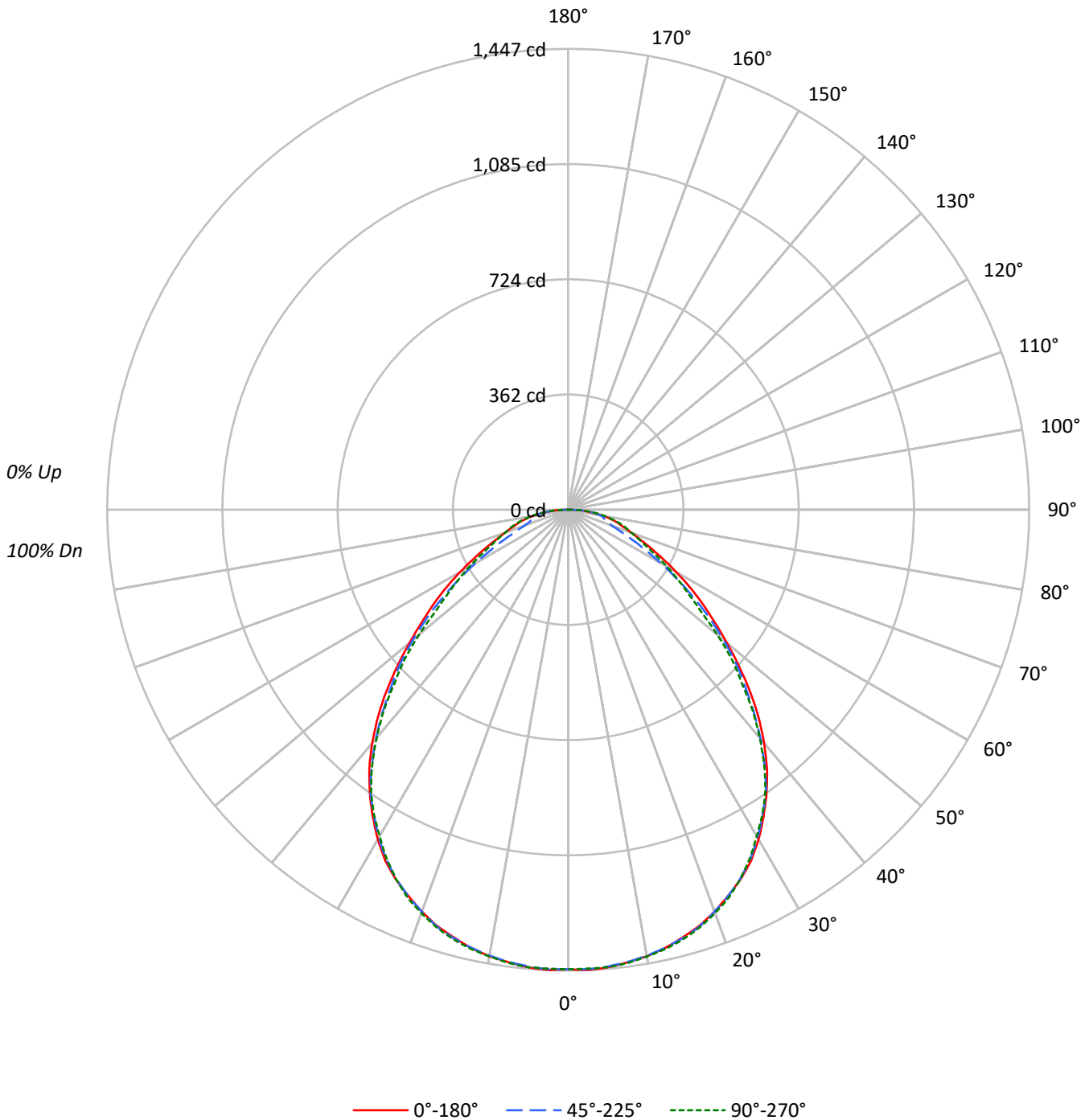
Input Watts (W): 22.785  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1941	1941	1941
5°	1948	1944	1947
10°	1945	1942	1946
15°	1936	1940	1945
20°	1923	1923	1930
25°	1901	1897	1899
30°	1857	1847	1838
35°	1784	1779	1772
40°	1680	1649	1642
45°	1537	1495	1467
50°	1359	1332	1280
55°	1208	1126	1083
60°	1052	901	966
65°	909	699	855
70°	829	572	827
75°	835	616	879
80°	870	802	926
85°	906	954	1027



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	4.1
10°-20°	392.5	11.9
20°-30°	587.6	17.8
30°-40°	671.4	20.3
40°-50°	607.0	18.4
50°-60°	436.7	13.2
60°-70°	253.2	7.7
70°-80°	150.2	4.5
80°-90°	66.5	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°	1117.0	33.8
0°-40°	1788.4	54.2
0°-60°	2832.1	85.8
0°-90°	3302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3302.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1443	1443	1443	1443	1443	
5°	1442	1440	1439	1437	1442	137
15°	1390	1392	1392	1391	1396	392
25°	1281	1279	1278	1275	1279	589
35°	1086	1081	1083	1069	1079	677
45°	808	794	786	778	771	621
55°	515	505	480	468	462	461
65°	285	253	219	245	268	288
75°	161	134	118	146	169	170
85°	59	63	62	71	66	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1442.9	1442.9	1442.9	1442.9	1442.9
2.5°	1447.0	1441.8	1444.4	1442.9	1442.3
5°	1442.3	1440.3	1439.3	1437.2	1441.8
7.5°	1433.1	1431.5	1432.0	1432.6	1435.6
10°	1423.8	1421.2	1421.7	1422.8	1424.3
12.5°	1409.4	1407.8	1408.3	1409.4	1413.0
15°	1389.8	1392.4	1392.4	1390.8	1396.0
17.5°	1370.2	1369.7	1372.3	1367.7	1374.9
20°	1342.9	1343.4	1342.9	1343.4	1348.1
22.5°	1312.0	1314.6	1313.0	1313.0	1318.2
25°	1280.6	1279.1	1278.0	1275.4	1279.1
27.5°	1243.0	1239.9	1237.3	1232.2	1234.7
30°	1195.1	1195.6	1188.9	1184.3	1183.2
32.5°	1141.5	1141.5	1135.3	1131.7	1134.8
35°	1085.9	1080.7	1082.8	1069.4	1078.7
37.5°	1025.6	1017.4	1012.7	1008.1	1011.2
40°	956.6	945.8	939.1	929.8	934.9
42.5°	884.0	870.6	862.3	855.6	857.7
45°	807.7	793.8	785.6	778.4	771.1
47.5°	727.4	718.6	714.5	705.2	697.0
50°	649.1	646.0	636.2	628.4	611.5
52.5°	577.5	574.9	559.4	546.5	524.9
55°	515.1	505.3	480.1	467.7	461.6
57.5°	451.8	435.8	405.4	403.9	408.0
60°	391.0	371.4	334.8	343.1	359.0
62.5°	335.9	306.5	271.5	291.0	310.1
65°	285.4	253.4	219.4	245.2	268.4
67.5°	243.7	211.7	176.7	211.2	238.0
70°	210.7	178.2	145.3	184.9	210.2
72.5°	183.4	154.0	126.7	164.3	190.6
75°	160.7	134.4	118.5	146.3	169.0
77.5°	138.1	116.9	113.3	130.3	144.2
80°	112.3	102.5	103.5	114.4	119.5
82.5°	84.0	84.5	87.1	95.8	93.8
85°	58.7	63.4	61.8	71.1	66.5
87.5°	32.5	35.5	33.5	40.7	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)