

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: P293467

Luminaire Tested: **24GR-LD5-34-A-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-34-A-UNV-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3241.0 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

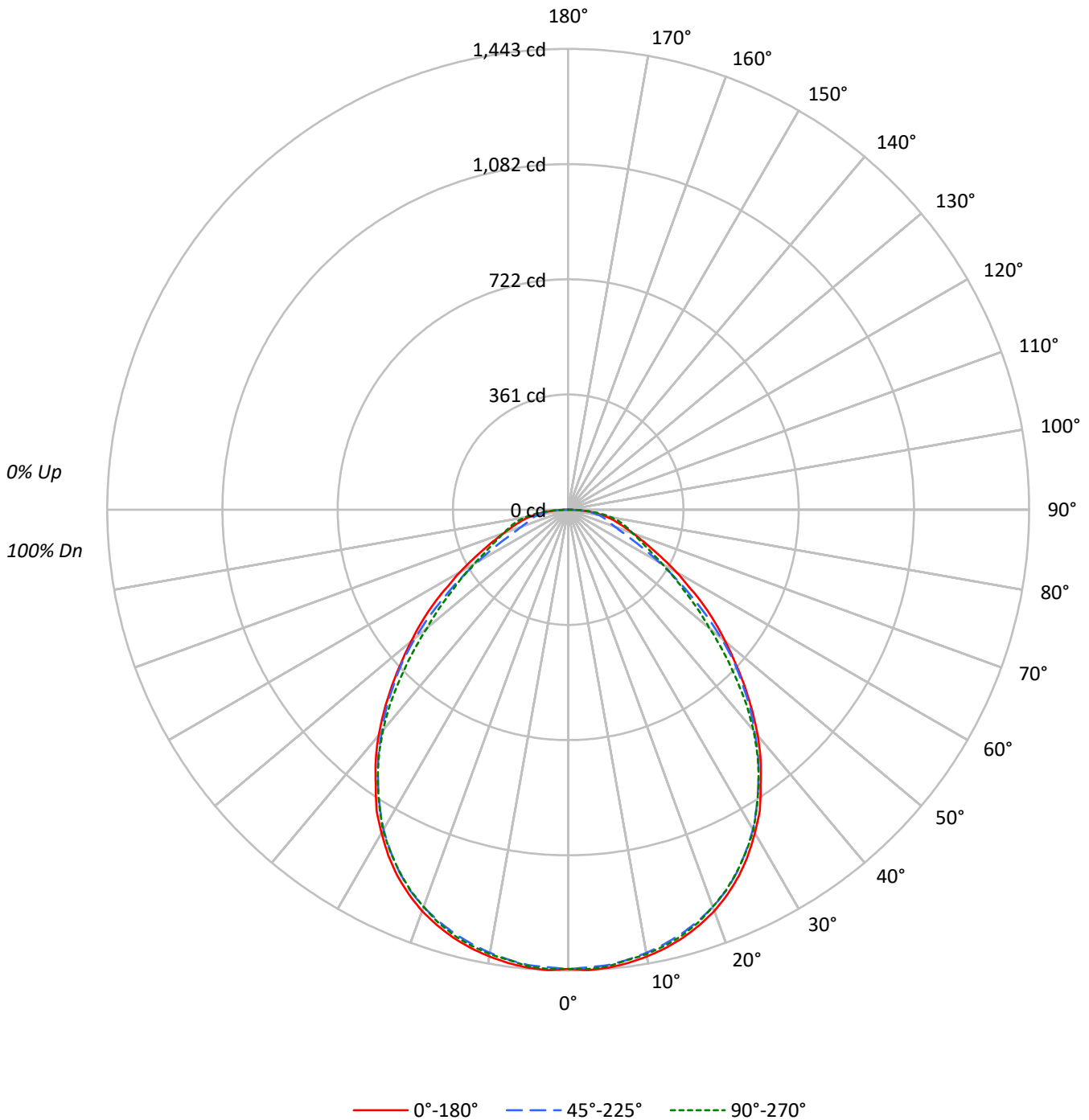
Input Watts (W): 22.971  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	99	96	99	96	93	95	93	90	91	89	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63																												
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	1935	1935	1935
5°	1944	1933	1938
10°	1941	1925	1931
15°	1933	1914	1922
20°	1915	1895	1895
25°	1878	1858	1856
30°	1816	1797	1801
35°	1725	1705	1707
40°	1622	1594	1584
45°	1486	1466	1408
50°	1344	1307	1208
55°	1206	1098	1042
60°	1056	884	916
65°	921	695	843
70°	843	607	843
75°	843	646	929
80°	916	760	1059
85°	1005	858	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	4.2
10°-20°	388.6	12.0
20°-30°	576.2	17.8
30°-40°	650.1	20.1
40°-50°	588.8	18.2
50°-60°	424.8	13.1
60°-70°	253.6	7.8
70°-80°	156.8	4.8
80°-90°	66.0	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°	1101.0	34.0
0°-40°	1751.1	54.0
0°-60°	2764.6	85.3
0°-90°	3241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1440	1438	1432	1430	1435	137
15°	1388	1379	1374	1374	1380	391
25°	1265	1258	1251	1247	1250	581
35°	1050	1048	1038	1038	1039	657
45°	781	776	771	752	740	602
55°	514	498	468	445	444	459
65°	289	255	218	248	265	291
75°	162	141	124	155	179	173
85°	65	57	56	73	74	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1438.0	1438.0	1438.0	1438.0	1438.0
2.5°	1443.0	1439.0	1434.0	1437.0	1439.5
5°	1439.5	1437.5	1431.5	1430.0	1435.0
7.5°	1432.0	1427.0	1421.5	1424.0	1422.0
10°	1420.5	1416.0	1409.0	1409.5	1413.0
12.5°	1406.5	1400.9	1393.4	1395.4	1398.4
15°	1387.9	1379.4	1373.9	1374.4	1379.9
17.5°	1364.4	1357.9	1350.9	1352.4	1354.9
20°	1337.4	1333.8	1323.8	1320.8	1323.3
22.5°	1303.3	1296.8	1291.3	1289.8	1290.3
25°	1264.8	1257.7	1251.2	1246.7	1250.2
27.5°	1219.7	1213.7	1205.2	1203.7	1206.7
30°	1168.6	1164.1	1156.6	1154.6	1159.1
32.5°	1116.5	1109.0	1098.5	1098.5	1099.5
35°	1050.0	1048.5	1037.9	1038.4	1039.4
37.5°	989.9	982.9	976.9	970.8	973.9
40°	923.3	915.3	907.3	903.3	901.8
42.5°	851.7	845.7	842.2	827.6	824.1
45°	781.1	776.1	770.6	751.5	740.0
47.5°	709.0	708.0	703.5	669.9	658.4
50°	641.9	640.4	624.4	588.8	577.3
52.5°	578.3	568.3	547.3	512.2	510.2
55°	514.2	498.2	468.1	445.1	444.1
57.5°	446.6	427.6	397.1	384.5	391.0
60°	392.5	363.5	328.5	330.0	340.5
62.5°	336.5	303.9	269.4	284.4	296.9
65°	289.4	254.9	218.3	247.8	264.9
67.5°	248.3	216.3	181.3	220.8	237.3
70°	214.3	188.3	154.2	195.8	214.3
72.5°	187.3	163.2	136.7	175.7	197.3
75°	162.2	140.7	124.2	154.7	178.7
77.5°	140.7	119.7	112.2	136.7	160.2
80°	118.2	99.1	98.1	119.2	136.7
82.5°	92.1	79.1	79.1	99.6	110.2
85°	65.1	57.1	55.6	72.6	73.6
87.5°	33.5	32.0	29.0	38.1	38.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)