

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: P293616

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293616  
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-LD5-42-A-UNV-L92765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3921.0 lumens  
Efficiency: N/A  
Efficacy: 136.9 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

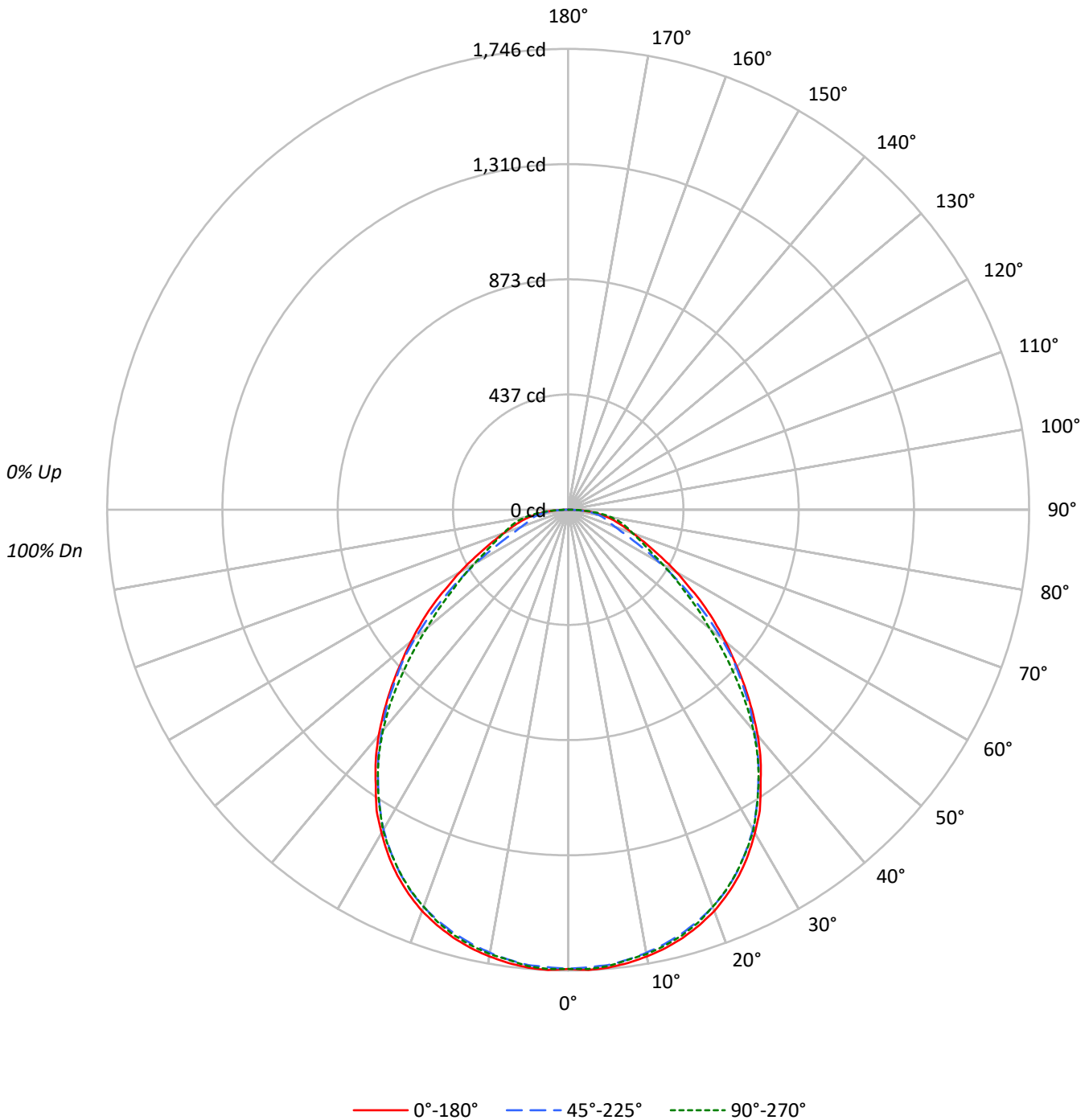
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2341	2341	2341
5°	2352	2339	2345
10°	2348	2329	2335
15°	2339	2315	2325
20°	2317	2293	2292
25°	2272	2247	2245
30°	2197	2174	2179
35°	2086	2063	2065
40°	1962	1928	1916
45°	1798	1774	1704
50°	1626	1581	1462
55°	1459	1329	1260
60°	1278	1069	1108
65°	1115	841	1020
70°	1020	734	1020
75°	1020	781	1124
80°	1108	920	1282
85°	1215	1037	1374



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	4.2
10°-20°	470.1	12.0
20°-30°	697.1	17.8
30°-40°	786.4	20.1
40°-50°	712.3	18.2
50°-60°	513.9	13.1
60°-70°	306.8	7.8
70°-80°	189.6	4.8
80°-90°	79.9	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°	1332.0	34.0
0°-40°	2118.5	54.0
0°-60°	3344.6	85.3
0°-90°	3921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1740	1740	1740	1740	1740	
5°	1742	1739	1732	1730	1736	165
15°	1679	1669	1662	1663	1669	473
25°	1530	1522	1514	1508	1512	703
35°	1270	1268	1256	1256	1258	795
45°	945	939	932	909	895	728
55°	622	603	566	538	537	555
65°	350	308	264	300	320	352
75°	196	170	150	187	216	210
85°	79	69	67	88	89	82
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1739.7	1739.7	1739.7	1739.7	1739.7
2.5°	1745.8	1740.9	1734.9	1738.5	1741.5
5°	1741.5	1739.1	1731.8	1730.0	1736.1
7.5°	1732.4	1726.4	1719.7	1722.7	1720.3
10°	1718.5	1713.0	1704.6	1705.2	1709.4
12.5°	1701.5	1694.9	1685.8	1688.2	1691.8
15°	1679.1	1668.8	1662.2	1662.8	1669.4
17.5°	1650.7	1642.8	1634.3	1636.1	1639.1
20°	1617.9	1613.7	1601.6	1598.0	1601.0
22.5°	1576.8	1568.9	1562.2	1560.4	1561.0
25°	1530.1	1521.6	1513.8	1508.3	1512.5
27.5°	1475.6	1468.3	1458.0	1456.2	1459.8
30°	1413.8	1408.4	1399.3	1396.9	1402.3
32.5°	1350.8	1341.7	1329.0	1329.0	1330.2
35°	1270.2	1268.4	1255.7	1256.3	1257.5
37.5°	1197.6	1189.1	1181.8	1174.5	1178.2
40°	1117.0	1107.3	1097.6	1092.8	1090.9
42.5°	1030.4	1023.1	1018.9	1001.3	997.1
45°	945.0	938.9	932.2	909.2	895.3
47.5°	857.7	856.5	851.1	810.5	796.6
50°	776.6	774.7	755.4	712.4	698.4
52.5°	699.6	687.5	662.1	619.7	617.3
55°	622.1	602.7	566.4	538.5	537.3
57.5°	540.3	517.3	480.4	465.2	473.1
60°	474.9	439.8	397.4	399.2	411.9
62.5°	407.1	367.7	325.9	344.1	359.2
65°	350.1	308.3	264.1	299.8	320.4
67.5°	300.4	261.7	219.3	267.1	287.1
70°	259.3	227.8	186.6	236.8	259.3
72.5°	226.5	197.5	165.4	212.6	238.7
75°	196.3	170.2	150.2	187.2	216.3
77.5°	170.2	144.8	135.7	165.4	193.8
80°	143.0	119.9	118.7	144.2	165.4
82.5°	111.5	95.7	95.7	120.5	133.3
85°	78.7	69.1	67.2	87.8	89.0
87.5°	40.6	38.8	35.1	46.0	46.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)