

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: P293613

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293613  
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-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3629.0 lumens  
Efficiency: N/A  
Efficacy: 129.2 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

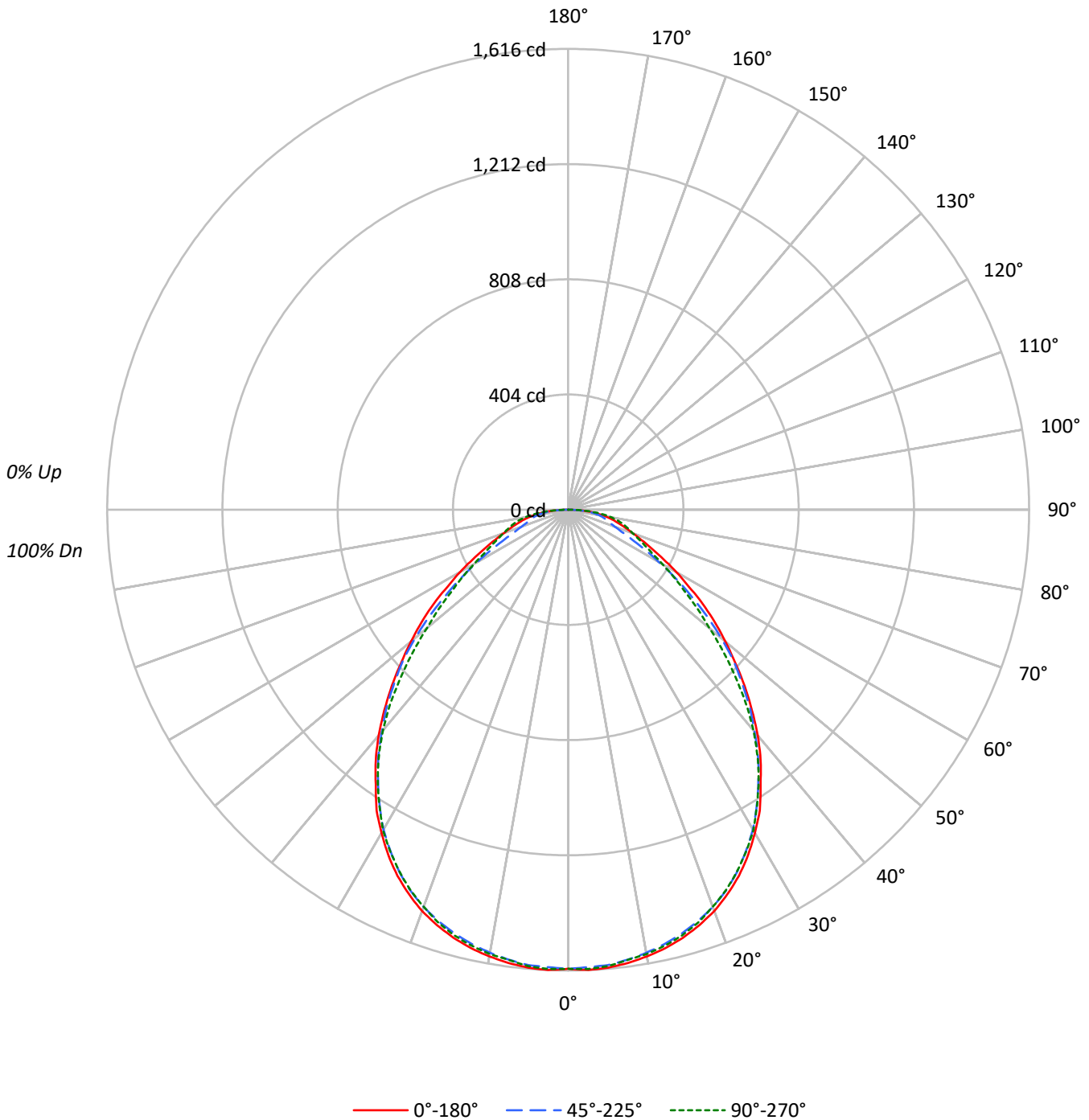
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2166	2166	2166
5°	2177	2165	2170
10°	2173	2155	2162
15°	2165	2143	2152
20°	2144	2122	2122
25°	2102	2080	2078
30°	2033	2012	2016
35°	1931	1909	1912
40°	1816	1784	1773
45°	1664	1642	1577
50°	1504	1463	1353
55°	1351	1230	1167
60°	1183	990	1026
65°	1032	778	944
70°	944	679	944
75°	944	723	1040
80°	1025	852	1186
85°	1125	960	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.5	4.2
10°-20°	435.1	12.0
20°-30°	645.2	17.8
30°-40°	727.9	20.1
40°-50°	659.2	18.2
50°-60°	475.6	13.1
60°-70°	284.0	7.8
70°-80°	175.5	4.8
80°-90°	73.9	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°	1232.8	34.0
0°-40°	1960.7	54.0
0°-60°	3095.6	85.3
0°-90°	3629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3629.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1612	1610	1603	1601	1607	153
15°	1554	1545	1538	1539	1545	438
25°	1416	1408	1401	1396	1400	651
35°	1176	1174	1162	1163	1164	736
45°	875	869	863	842	829	674
55°	576	558	524	498	497	514
65°	324	285	244	278	297	326
75°	182	158	139	173	200	194
85°	73	64	62	81	82	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1610.1	1610.1	1610.1	1610.1	1610.1
2.5°	1615.8	1611.3	1605.7	1609.0	1611.8
5°	1611.8	1609.6	1602.9	1601.2	1606.8
7.5°	1603.4	1597.8	1591.6	1594.4	1592.2
10°	1590.5	1585.5	1577.6	1578.2	1582.1
12.5°	1574.8	1568.7	1560.2	1562.5	1565.9
15°	1554.1	1544.6	1538.4	1538.9	1545.1
17.5°	1527.7	1520.4	1512.6	1514.3	1517.1
20°	1497.5	1493.5	1482.3	1479.0	1481.8
22.5°	1459.3	1452.0	1445.9	1444.2	1444.8
25°	1416.2	1408.3	1401.0	1396.0	1399.9
27.5°	1365.7	1359.0	1349.4	1347.8	1351.1
30°	1308.5	1303.5	1295.1	1292.8	1297.9
32.5°	1250.2	1241.8	1230.0	1230.0	1231.2
35°	1175.7	1174.0	1162.2	1162.8	1163.9
37.5°	1108.4	1100.5	1093.8	1087.1	1090.4
40°	1033.8	1024.8	1015.9	1011.4	1009.7
42.5°	953.6	946.9	943.0	926.7	922.8
45°	874.6	869.0	862.8	841.5	828.6
47.5°	793.9	792.7	787.7	750.1	737.2
50°	718.7	717.1	699.1	659.3	646.4
52.5°	647.5	636.3	612.8	573.5	571.3
55°	575.8	557.8	524.2	498.4	497.3
57.5°	500.1	478.8	444.6	430.6	437.9
60°	439.5	407.0	367.8	369.5	381.2
62.5°	376.7	340.3	301.6	318.4	332.5
65°	324.0	285.4	244.4	277.5	296.6
67.5°	278.1	242.2	203.0	247.2	265.7
70°	240.0	210.8	172.7	219.2	240.0
72.5°	209.7	182.8	153.1	196.8	220.9
75°	181.6	157.5	139.0	173.2	200.1
77.5°	157.5	134.0	125.6	153.1	179.4
80°	132.3	111.0	109.9	133.4	153.1
82.5°	103.2	88.6	88.6	111.6	123.3
85°	72.9	63.9	62.2	81.3	82.4
87.5°	37.6	35.9	32.5	42.6	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)