

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: P293615

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293615  
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-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3843.0 lumens  
Efficiency: N/A  
Efficacy: 134.6 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

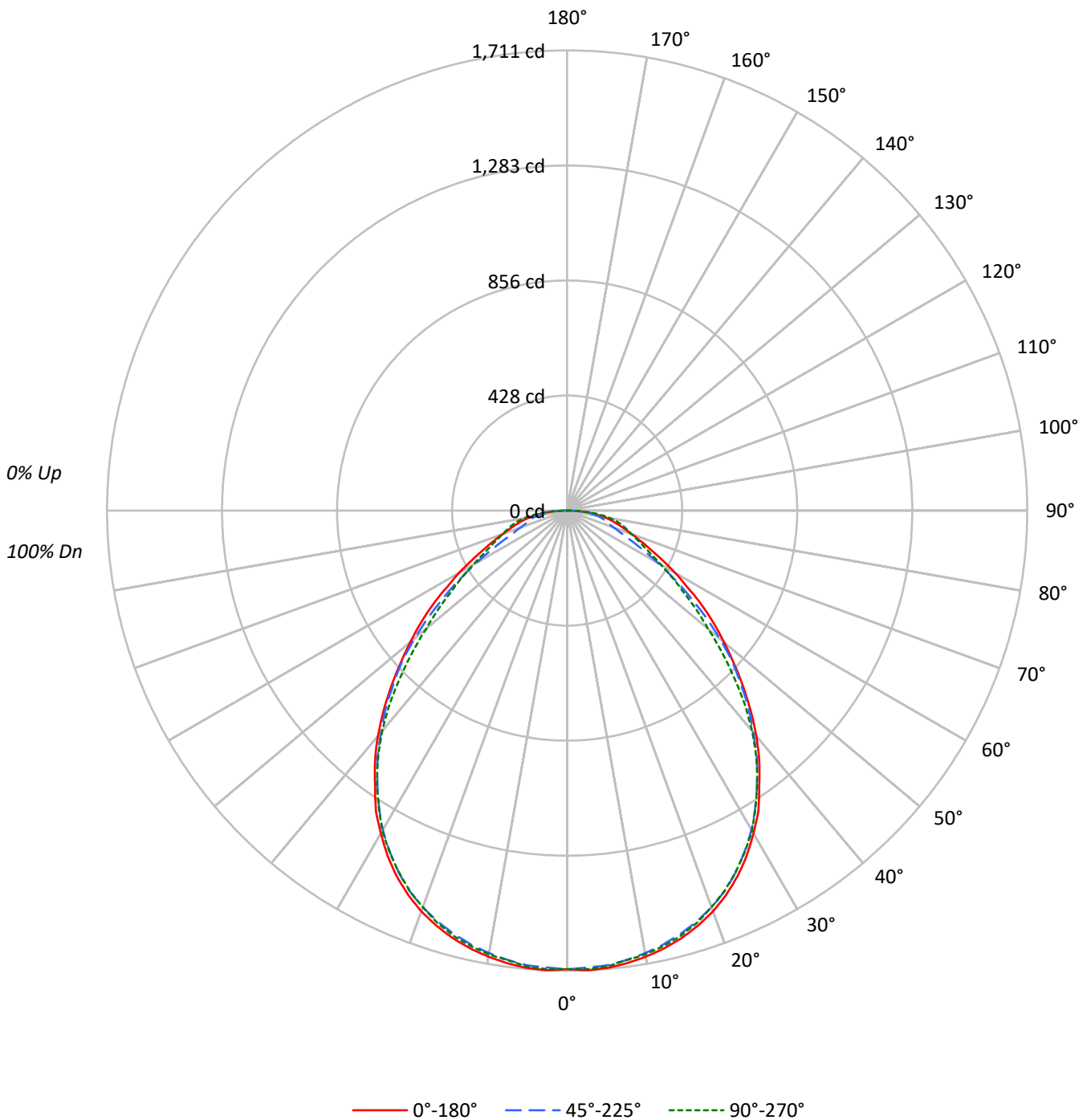
Input Watts (W): 28.551  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2294	2294	2294
5°	2305	2293	2298
10°	2301	2283	2289
15°	2292	2269	2279
20°	2271	2248	2247
25°	2226	2203	2201
30°	2153	2131	2135
35°	2045	2021	2024
40°	1923	1890	1878
45°	1762	1739	1670
50°	1593	1550	1433
55°	1430	1302	1235
60°	1253	1048	1086
65°	1093	824	1000
70°	1000	720	1000
75°	1000	765	1102
80°	1086	902	1256
85°	1192	1017	1348



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.5	4.2
10°-20°	460.8	12.0
20°-30°	683.3	17.8
30°-40°	770.8	20.1
40°-50°	698.1	18.2
50°-60°	503.7	13.1
60°-70°	300.7	7.8
70°-80°	185.9	4.8
80°-90°	78.3	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°	1305.5	34.0
0°-40°	2076.3	54.0
0°-60°	3278.1	85.3
0°-90°	3843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3843.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1707	1704	1697	1696	1702	162
15°	1646	1636	1629	1630	1636	464
25°	1500	1491	1484	1478	1482	689
35°	1245	1243	1231	1231	1232	779
45°	926	920	914	891	878	714
55°	610	591	555	528	527	544
65°	343	302	259	294	314	345
75°	192	167	147	184	212	205
85°	77	68	66	86	87	81
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1705.1	1705.1	1705.1	1705.1	1705.1
2.5°	1711.0	1706.3	1700.3	1703.9	1706.9
5°	1706.9	1704.5	1697.4	1695.6	1701.5
7.5°	1698.0	1692.0	1685.5	1688.5	1686.1
10°	1684.3	1679.0	1670.7	1671.3	1675.4
12.5°	1667.7	1661.2	1652.3	1654.6	1658.2
15°	1645.7	1635.6	1629.1	1629.7	1636.2
17.5°	1617.8	1610.1	1601.8	1603.6	1606.5
20°	1585.8	1581.6	1569.7	1566.2	1569.1
22.5°	1545.4	1537.7	1531.1	1529.4	1530.0
25°	1499.7	1491.4	1483.6	1478.3	1482.5
27.5°	1446.2	1439.1	1429.0	1427.2	1430.8
30°	1385.7	1380.3	1371.4	1369.1	1374.4
32.5°	1323.9	1315.0	1302.6	1302.6	1303.8
35°	1245.0	1243.2	1230.7	1231.3	1232.5
37.5°	1173.7	1165.4	1158.3	1151.2	1154.7
40°	1094.8	1085.3	1075.8	1071.0	1069.2
42.5°	1009.9	1002.8	998.6	981.4	977.2
45°	926.2	920.2	913.7	891.1	877.5
47.5°	840.7	839.5	834.1	794.4	780.7
50°	761.1	759.3	740.3	698.2	684.5
52.5°	685.7	673.8	648.9	607.4	605.0
55°	609.7	590.7	555.1	527.8	526.6
57.5°	529.6	507.0	470.8	456.0	463.7
60°	465.5	431.0	389.5	391.2	403.7
62.5°	399.0	360.4	319.4	337.2	352.1
65°	343.2	302.2	258.9	293.9	314.1
67.5°	294.5	256.5	214.9	261.8	281.4
70°	254.1	223.2	182.9	232.1	254.1
72.5°	222.0	193.5	162.1	208.4	233.9
75°	192.4	166.8	147.2	183.5	211.9
77.5°	166.8	141.9	133.0	162.1	190.0
80°	140.1	117.6	116.4	141.3	162.1
82.5°	109.2	93.8	93.8	118.1	130.6
85°	77.2	67.7	65.9	86.1	87.3
87.5°	39.8	38.0	34.4	45.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)