

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: P293808

Luminaire Tested: **24GR-LD5-42-A125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293808  
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-LD5-42-A125-UNV-L93050-W2A1-U-4000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3855.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 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

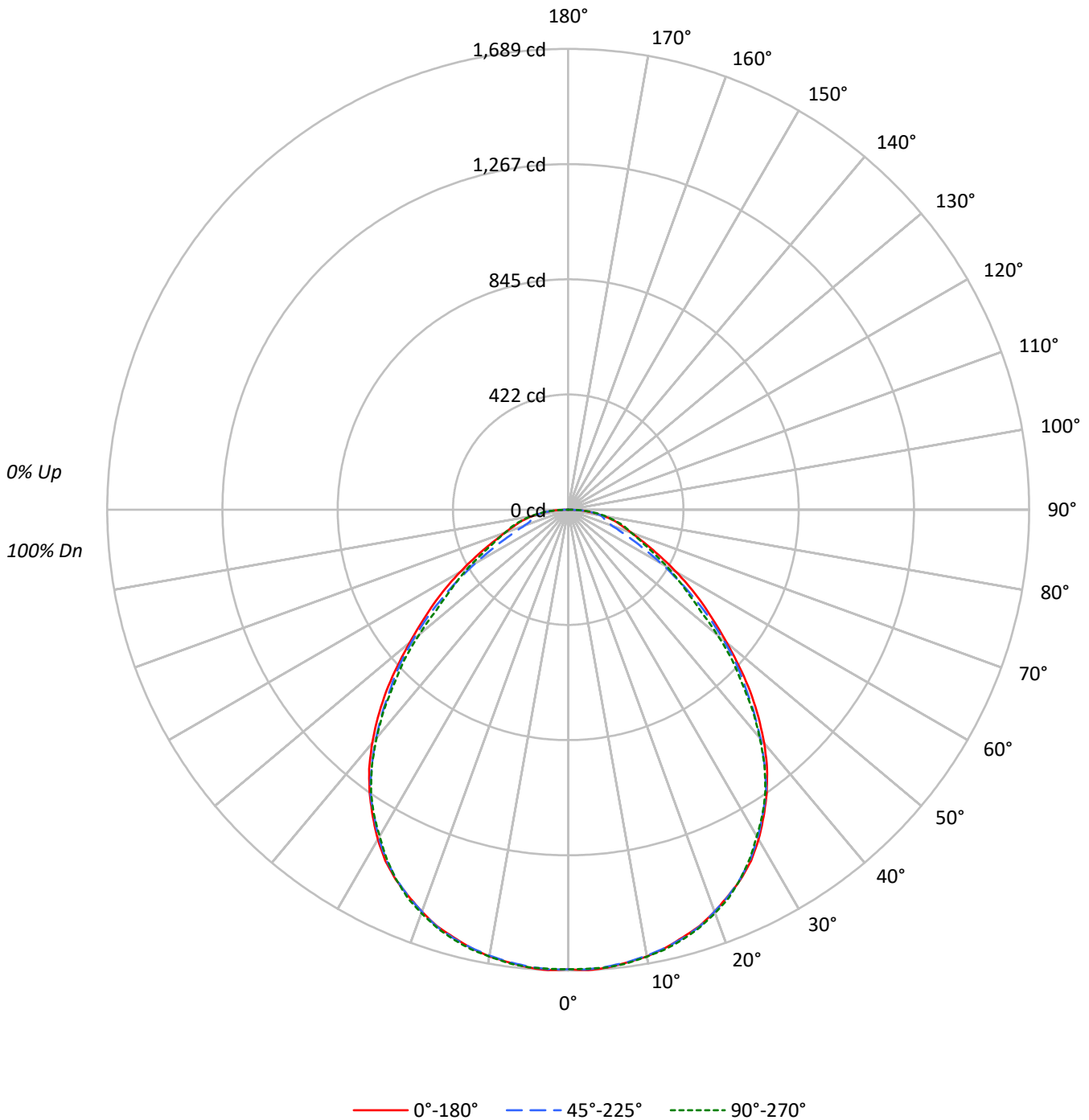
Input Watts (W): 28.720818  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2266	2266	2266
5°	2274	2269	2274
10°	2271	2268	2272
15°	2260	2264	2270
20°	2245	2245	2253
25°	2220	2215	2217
30°	2168	2156	2146
35°	2082	2076	2068
40°	1962	1926	1917
45°	1794	1745	1713
50°	1586	1555	1494
55°	1411	1315	1264
60°	1228	1052	1128
65°	1061	816	997
70°	968	667	965
75°	975	719	1026
80°	1016	937	1081
85°	1059	1115	1198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	4.1
10°-20°	458.3	11.9
20°-30°	686.0	17.8
30°-40°	783.9	20.3
40°-50°	708.7	18.4
50°-60°	509.9	13.2
60°-70°	295.6	7.7
70°-80°	175.3	4.5
80°-90°	77.7	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°	1304.0	33.8
0°-40°	2087.9	54.2
0°-60°	3306.4	85.8
0°-90°	3855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1684	1682	1680	1678	1683	160
15°	1623	1626	1626	1624	1630	458
25°	1495	1493	1492	1489	1493	687
35°	1268	1262	1264	1248	1259	790
45°	943	927	917	909	900	724
55°	601	590	560	546	539	538
65°	333	296	256	286	313	336
75°	188	157	138	171	197	198
85°	69	74	72	83	78	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1684.5	1684.5	1684.5	1684.5	1684.5
2.5°	1689.3	1683.3	1686.3	1684.5	1683.9
5°	1683.9	1681.5	1680.3	1677.9	1683.3
7.5°	1673.1	1671.3	1671.9	1672.5	1676.1
10°	1662.2	1659.2	1659.8	1661.0	1662.9
12.5°	1645.4	1643.6	1644.2	1645.4	1649.6
15°	1622.6	1625.6	1625.6	1623.8	1629.8
17.5°	1599.7	1599.1	1602.1	1596.7	1605.1
20°	1567.8	1568.4	1567.8	1568.4	1573.8
22.5°	1531.7	1534.8	1533.0	1533.0	1539.0
25°	1495.1	1493.3	1492.1	1489.0	1493.3
27.5°	1451.2	1447.6	1444.5	1438.5	1441.5
30°	1395.2	1395.8	1388.0	1382.6	1381.4
32.5°	1332.7	1332.7	1325.5	1321.3	1324.9
35°	1267.7	1261.7	1264.1	1248.5	1259.3
37.5°	1197.4	1187.8	1182.3	1176.9	1180.5
40°	1116.8	1104.2	1096.3	1085.5	1091.5
42.5°	1032.0	1016.4	1006.7	998.9	1001.3
45°	943.0	926.7	917.1	908.7	900.3
47.5°	849.2	838.9	834.1	823.3	813.7
50°	757.8	754.1	742.7	733.7	713.9
52.5°	674.2	671.2	653.1	638.1	612.8
55°	601.4	590.0	560.5	546.1	538.8
57.5°	527.4	508.8	473.3	471.5	476.3
60°	456.5	433.6	390.9	400.5	419.2
62.5°	392.1	357.8	316.9	339.8	362.0
65°	333.2	295.9	256.2	286.3	313.3
67.5°	284.5	247.2	206.3	246.6	277.8
70°	246.0	208.1	169.6	215.9	245.4
72.5°	214.1	179.8	147.9	191.8	222.5
75°	187.6	157.0	138.3	170.8	197.3
77.5°	161.2	136.5	132.3	152.2	168.4
80°	131.1	119.7	120.9	133.5	139.5
82.5°	98.0	98.6	101.6	111.9	109.5
85°	68.6	74.0	72.2	83.0	77.6
87.5°	37.9	41.5	39.1	47.5	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)