

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: P293361

Luminaire Tested: **24GR-LD5-42-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-42-F125-UNV-L92765-W2A1-U-3500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3587.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

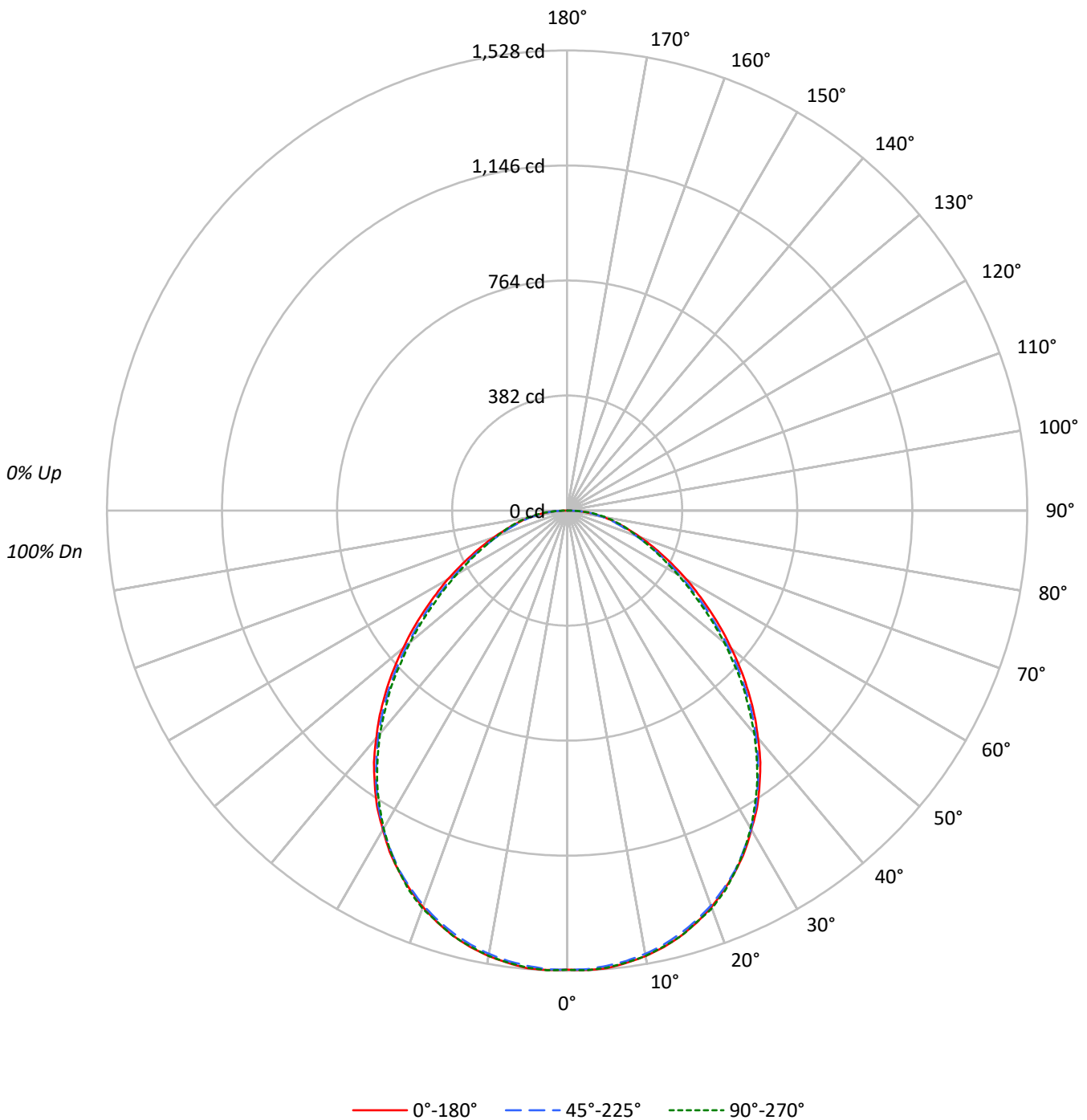
Input Watts (W): 28.086  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

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

	0°	45°	90°
0°	2051	2051	2051
5°	2061	2049	2058
10°	2052	2042	2051
15°	2036	2025	2038
20°	2006	1998	2013
25°	1963	1958	1962
30°	1901	1897	1893
35°	1829	1815	1808
40°	1731	1712	1698
45°	1619	1590	1570
50°	1488	1448	1424
55°	1357	1307	1269
60°	1233	1166	1136
65°	1110	1048	1030
70°	1017	951	977
75°	950	907	974
80°	943	925	1017
85°	960	969	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.3	4.0
10°-20°	410.2	11.4
20°-30°	606.0	16.9
30°-40°	688.9	19.2
40°-50°	643.4	17.9
50°-60°	500.3	13.9
60°-70°	332.0	9.3
70°-80°	192.1	5.4
80°-90°	69.9	1.9
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°	1160.4	32.4
0°-40°	1849.4	51.6
0°-60°	2993.0	83.4
0°-90°	3587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3587.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1524	1524	1524	1524	1524	
5°	1526	1518	1517	1520	1523	145
15°	1462	1454	1454	1453	1463	412
25°	1322	1316	1319	1316	1322	608
35°	1114	1108	1105	1097	1101	695
45°	851	844	835	825	825	656
55°	579	570	557	543	541	519
65°	349	338	329	323	324	349
75°	183	178	174	182	187	196
85°	62	61	63	71	72	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1524.5	1524.5	1524.5	1524.5	1524.5
2.5°	1526.7	1522.2	1524.5	1522.8	1527.8
5°	1525.6	1517.7	1517.2	1520.0	1523.4
7.5°	1514.9	1506.5	1508.2	1508.2	1513.8
10°	1502.0	1493.6	1494.8	1495.3	1501.5
12.5°	1484.7	1476.3	1476.8	1476.3	1482.4
15°	1461.7	1454.4	1453.8	1453.3	1462.8
17.5°	1433.6	1423.6	1426.9	1427.5	1432.5
20°	1401.1	1393.3	1395.5	1395.0	1405.6
22.5°	1362.4	1356.8	1358.5	1357.4	1367.5
25°	1322.1	1316.5	1318.7	1315.9	1321.5
27.5°	1276.7	1272.7	1270.5	1268.8	1272.7
30°	1223.4	1221.1	1221.1	1213.9	1218.3
32.5°	1172.9	1165.6	1165.6	1162.8	1160.0
35°	1113.5	1107.9	1105.1	1097.2	1100.6
37.5°	1054.1	1041.2	1040.1	1033.9	1033.9
40°	985.7	978.4	974.5	967.7	966.6
42.5°	920.6	913.3	906.6	895.4	893.2
45°	851.1	844.4	835.4	824.8	825.3
47.5°	782.1	772.6	764.2	751.3	749.6
50°	710.9	704.2	691.9	680.7	680.1
52.5°	644.2	633.6	622.3	608.9	608.9
55°	578.6	570.2	557.3	542.7	541.1
57.5°	515.8	508.0	493.4	482.7	479.9
60°	458.1	446.9	433.4	424.4	422.2
62.5°	400.3	390.2	380.1	371.2	370.6
65°	348.7	338.1	329.1	322.9	323.5
67.5°	302.2	293.2	283.1	281.5	282.0
70°	258.5	248.9	241.7	245.6	248.4
72.5°	217.0	211.9	206.9	212.5	216.4
75°	182.8	178.3	174.4	182.2	187.3
77.5°	151.4	148.0	147.5	154.2	158.7
80°	121.7	117.7	119.4	127.3	131.2
82.5°	92.5	89.7	90.3	99.8	102.6
85°	62.2	61.1	62.8	71.2	71.8
87.5°	33.1	33.1	34.2	39.2	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)