

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: P293302

Luminaire Tested: **24GR-LD5-42-F125-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293302  
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-L93050-W2A1-U-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3261.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

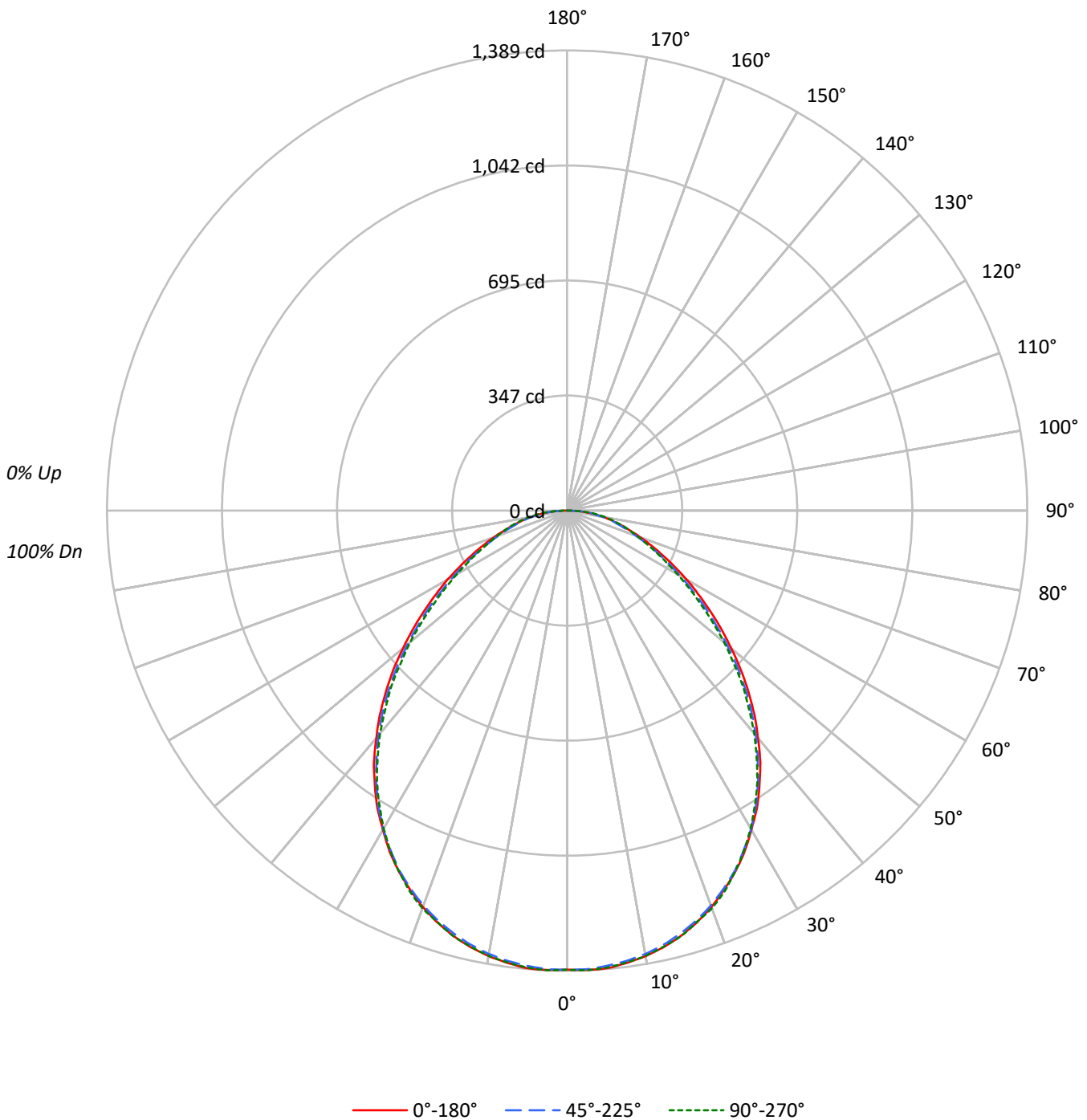
Input Watts (W): 28.636839  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1865	1865	1865
5°	1873	1863	1870
10°	1866	1857	1865
15°	1851	1841	1852
20°	1824	1817	1830
25°	1784	1780	1784
30°	1728	1725	1721
35°	1663	1650	1644
40°	1574	1556	1544
45°	1472	1445	1428
50°	1353	1317	1294
55°	1234	1189	1154
60°	1121	1060	1033
65°	1009	953	936
70°	924	864	888
75°	864	824	885
80°	857	841	924
85°	874	881	1007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.2	4.0
10°-20°	372.9	11.4
20°-30°	550.9	16.9
30°-40°	626.3	19.2
40°-50°	584.9	17.9
50°-60°	454.9	13.9
60°-70°	301.8	9.3
70°-80°	174.7	5.4
80°-90°	63.5	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°	1055.0	32.4
0°-40°	1681.3	51.6
0°-60°	2721.0	83.4
0°-90°	3261.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3261.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1387	1380	1379	1382	1385	132
15°	1329	1322	1322	1321	1330	374
25°	1202	1197	1199	1196	1201	553
35°	1012	1007	1005	998	1001	632
45°	774	768	760	750	750	596
55°	526	518	507	493	492	472
65°	317	307	299	294	294	317
75°	166	162	158	166	170	178
85°	57	56	57	65	65	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1385.9	1385.9	1385.9	1385.9	1385.9
2.5°	1388.0	1383.9	1385.9	1384.4	1389.0
5°	1386.9	1379.8	1379.3	1381.8	1384.9
7.5°	1377.3	1369.6	1371.1	1371.1	1376.2
10°	1365.5	1357.9	1358.9	1359.4	1365.0
12.5°	1349.7	1342.1	1342.6	1342.1	1347.7
15°	1328.8	1322.2	1321.7	1321.2	1329.9
17.5°	1303.4	1294.2	1297.2	1297.7	1302.3
20°	1273.8	1266.7	1268.7	1268.2	1277.9
22.5°	1238.6	1233.5	1235.0	1234.0	1243.2
25°	1201.9	1196.8	1198.9	1196.3	1201.4
27.5°	1160.6	1157.1	1155.0	1153.5	1157.1
30°	1112.2	1110.2	1110.2	1103.5	1107.6
32.5°	1066.3	1059.7	1059.7	1057.2	1054.6
35°	1012.3	1007.2	1004.7	997.5	1000.6
37.5°	958.3	946.5	945.5	939.9	939.9
40°	896.1	889.5	885.9	879.8	878.8
42.5°	837.0	830.3	824.2	814.0	812.0
45°	773.8	767.6	759.5	749.8	750.3
47.5°	711.1	702.4	694.7	683.0	681.5
50°	646.3	640.2	629.0	618.8	618.3
52.5°	585.7	576.0	565.8	553.6	553.6
55°	526.0	518.4	506.7	493.4	491.9
57.5°	468.9	461.8	448.6	438.9	436.3
60°	416.4	406.2	394.0	385.9	383.8
62.5°	363.9	354.8	345.6	337.4	336.9
65°	317.0	307.4	299.2	293.6	294.1
67.5°	274.7	266.6	257.4	255.9	256.4
70°	235.0	226.3	219.7	223.3	225.8
72.5°	197.3	192.7	188.1	193.2	196.8
75°	166.2	162.1	158.5	165.7	170.2
77.5°	137.6	134.6	134.1	140.2	144.3
80°	110.6	107.0	108.6	115.7	119.3
82.5°	84.1	81.6	82.1	90.7	93.3
85°	56.6	55.6	57.1	64.7	65.2
87.5°	30.1	30.1	31.1	35.7	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)