

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: P293233

Luminaire Tested: **24GR-LD5-42-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293233  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3847.0 lumens  
Efficiency: N/A  
Efficacy: 137.4 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

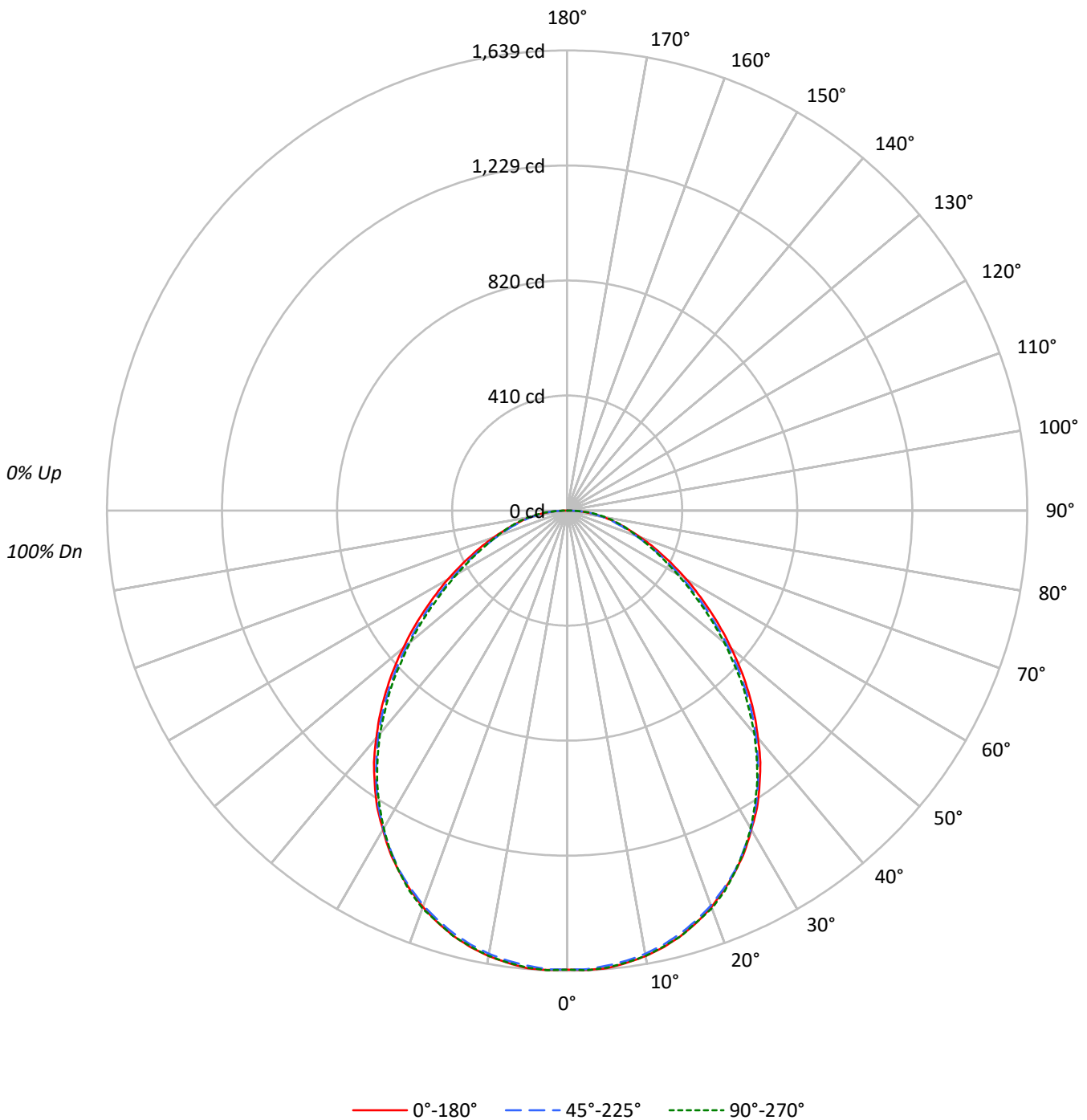
Input Watts (W): 27.993  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2200	2200	2200
5°	2210	2198	2207
10°	2201	2190	2200
15°	2184	2172	2185
20°	2152	2143	2158
25°	2105	2100	2104
30°	2039	2035	2030
35°	1962	1947	1939
40°	1857	1836	1821
45°	1737	1705	1684
50°	1596	1553	1527
55°	1456	1402	1361
60°	1322	1251	1218
65°	1191	1124	1105
70°	1090	1020	1048
75°	1019	972	1044
80°	1011	993	1090
85°	1030	1039	1189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.7	4.0
10°-20°	439.9	11.4
20°-30°	649.9	16.9
30°-40°	738.9	19.2
40°-50°	690.0	17.9
50°-60°	536.6	13.9
60°-70°	356.1	9.3
70°-80°	206.0	5.4
80°-90°	74.9	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°	1244.5	32.4
0°-40°	1983.4	51.6
0°-60°	3210.0	83.4
0°-90°	3847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3847.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1636	1628	1627	1630	1634	155
15°	1568	1560	1559	1559	1569	442
25°	1418	1412	1414	1411	1417	652
35°	1194	1188	1185	1177	1180	746
45°	913	906	896	884	885	703
55°	621	612	598	582	580	557
65°	374	363	353	346	347	374
75°	196	191	187	195	201	210
85°	67	66	67	76	77	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1635.0	1635.0	1635.0	1635.0	1635.0
2.5°	1637.4	1632.6	1635.0	1633.2	1638.6
5°	1636.2	1627.8	1627.2	1630.2	1633.8
7.5°	1624.8	1615.7	1617.5	1617.5	1623.5
10°	1610.9	1601.9	1603.1	1603.7	1610.3
12.5°	1592.3	1583.3	1583.9	1583.3	1589.9
15°	1567.6	1559.8	1559.2	1558.6	1568.8
17.5°	1537.6	1526.7	1530.3	1530.9	1536.4
20°	1502.7	1494.3	1496.7	1496.1	1507.5
22.5°	1461.2	1455.2	1457.0	1455.8	1466.6
25°	1417.9	1411.9	1414.3	1411.3	1417.3
27.5°	1369.2	1365.0	1362.6	1360.8	1365.0
30°	1312.1	1309.7	1309.7	1301.8	1306.7
32.5°	1258.0	1250.1	1250.1	1247.1	1244.1
35°	1194.2	1188.2	1185.2	1176.8	1180.4
37.5°	1130.5	1116.6	1115.4	1108.8	1108.8
40°	1057.1	1049.3	1045.1	1037.9	1036.7
42.5°	987.4	979.5	972.3	960.3	957.9
45°	912.8	905.6	896.0	884.5	885.1
47.5°	838.8	828.6	819.6	805.8	804.0
50°	762.5	755.3	742.0	730.0	729.4
52.5°	690.9	679.5	667.5	653.0	653.0
55°	620.6	611.5	597.7	582.1	580.3
57.5°	553.2	544.8	529.2	517.7	514.7
60°	491.3	479.2	464.8	455.2	452.8
62.5°	429.3	418.5	407.7	398.1	397.5
65°	374.0	362.6	353.0	346.4	347.0
67.5°	324.1	314.5	303.7	301.9	302.5
70°	277.2	267.0	259.2	263.4	266.4
72.5°	232.7	227.3	221.9	227.9	232.1
75°	196.0	191.2	187.0	195.4	200.8
77.5°	162.4	158.7	158.1	165.4	170.2
80°	130.5	126.3	128.1	136.5	140.7
82.5°	99.2	96.2	96.8	107.0	110.0
85°	66.7	65.5	67.3	76.4	77.0
87.5°	35.5	35.5	36.7	42.1	40.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)