

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: P293229

Luminaire Tested: **24GR-LD5-38-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293229  
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-LD5-38-F125-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3962.0 lumens  
Efficiency: N/A  
Efficacy: 152.7 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

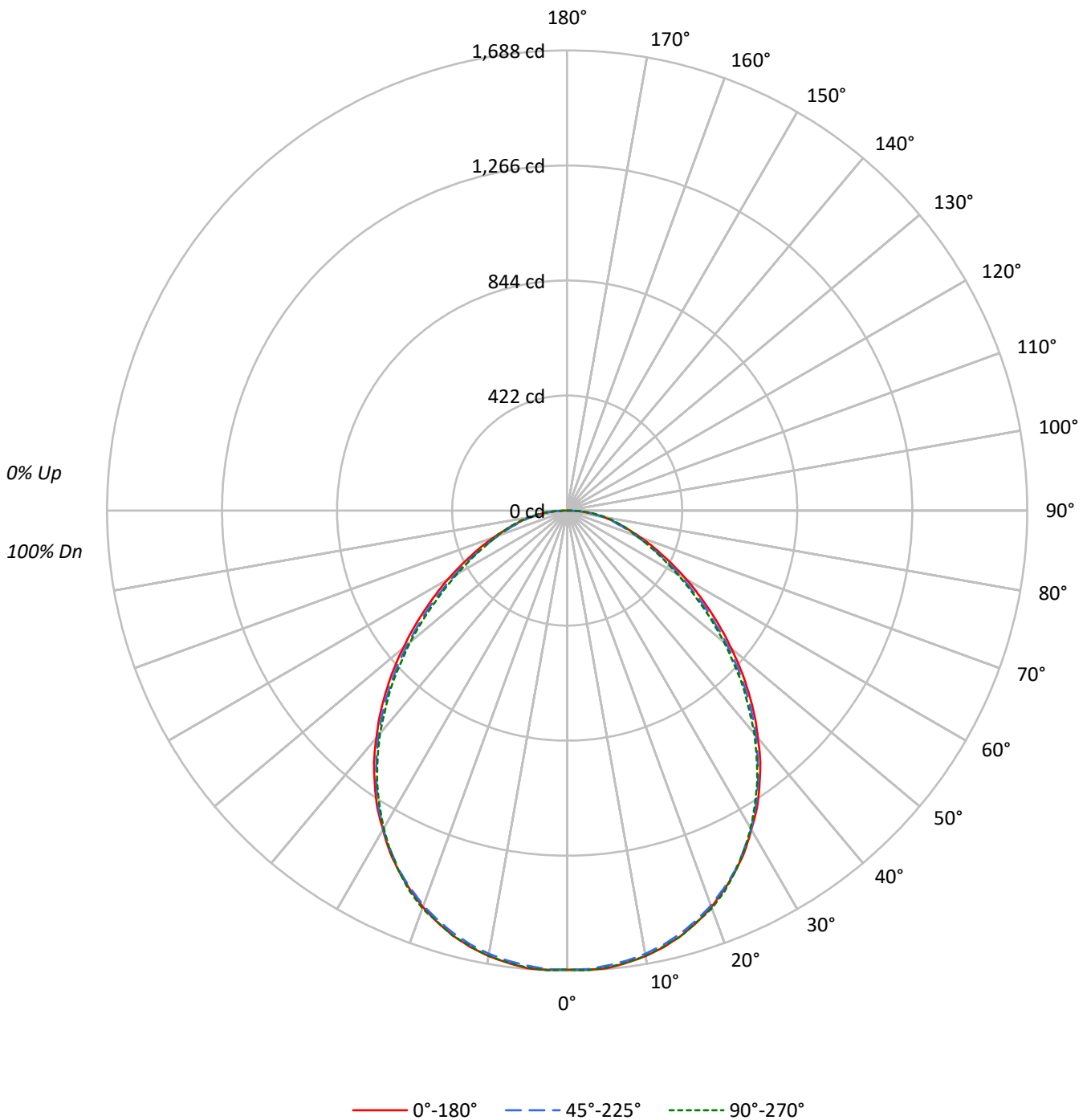
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293229

CATALOG NUMBER: 24GR-LD5-38-F125-UNV-L82765-W2A1-U-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P293229

CATALOG NUMBER: 24GR-LD5-38-F125-UNV-L82765-W2A1-U-5000K

**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°	2266	2266	2266
5°	2276	2263	2273
10°	2267	2256	2266
15°	2249	2237	2251
20°	2216	2207	2223
25°	2168	2162	2167
30°	2099	2096	2091
35°	2020	2005	1997
40°	1912	1890	1875
45°	1789	1756	1735
50°	1644	1600	1572
55°	1499	1444	1402
60°	1362	1288	1255
65°	1226	1157	1138
70°	1123	1050	1079
75°	1050	1001	1075
80°	1041	1022	1123
85°	1061	1071	1224



TEST NUMBER: P293229

CATALOG NUMBER: 24GR-LD5-38-F125-UNV-L82765-W2A1-U-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.4	4.0
10°-20°	453.1	11.4
20°-30°	669.3	16.9
30°-40°	761.0	19.2
40°-50°	710.6	17.9
50°-60°	552.6	13.9
60°-70°	366.7	9.3
70°-80°	212.2	5.4
80°-90°	77.2	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°	1281.7	32.4
0°-40°	2042.7	51.6
0°-60°	3306.0	83.4
0°-90°	3962.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3962.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1685	1676	1676	1679	1683	160
15°	1614	1606	1606	1605	1616	455
25°	1460	1454	1457	1454	1460	671
35°	1230	1224	1221	1212	1216	768
45°	940	933	923	911	912	724
55°	639	630	616	600	598	573
65°	385	373	364	357	357	385
75°	202	197	193	201	207	216
85°	69	68	69	79	79	75
90°	0	0	0	0	0	



TEST NUMBER: P293229

CATALOG NUMBER: 24GR-LD5-38-F125-UNV-L82765-W2A1-U-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1683.8	1683.8	1683.8	1683.8	1683.8
2.5°	1686.3	1681.4	1683.8	1682.0	1687.6
5°	1685.1	1676.4	1675.8	1678.9	1682.6
7.5°	1673.3	1664.0	1665.9	1665.9	1672.1
10°	1659.1	1649.8	1651.0	1651.6	1658.5
12.5°	1639.9	1630.6	1631.2	1630.6	1637.4
15°	1614.5	1606.4	1605.8	1605.2	1615.7
17.5°	1583.5	1572.4	1576.1	1576.7	1582.3
20°	1547.6	1538.9	1541.4	1540.8	1552.6
22.5°	1504.9	1498.7	1500.5	1499.3	1510.4
25°	1460.3	1454.1	1456.6	1453.5	1459.7
27.5°	1410.1	1405.8	1403.3	1401.5	1405.8
30°	1351.3	1348.8	1348.8	1340.8	1345.7
32.5°	1295.6	1287.5	1287.5	1284.4	1281.3
35°	1229.9	1223.7	1220.6	1212.0	1215.7
37.5°	1164.3	1150.0	1148.8	1142.0	1142.0
40°	1088.7	1080.7	1076.3	1068.9	1067.7
42.5°	1016.9	1008.8	1001.4	989.0	986.5
45°	940.1	932.7	922.7	911.0	911.6
47.5°	863.9	853.4	844.1	829.8	828.0
50°	785.3	777.8	764.2	751.8	751.2
52.5°	711.6	699.8	687.4	672.5	672.5
55°	639.1	629.8	615.6	599.5	597.6
57.5°	569.7	561.1	545.0	533.2	530.1
60°	506.0	493.6	478.7	468.8	466.3
62.5°	442.2	431.0	419.9	410.0	409.4
65°	385.2	373.4	363.5	356.7	357.3
67.5°	333.8	323.9	312.7	310.9	311.5
70°	285.5	275.0	266.9	271.2	274.3
72.5°	239.7	234.1	228.5	234.7	239.0
75°	201.9	196.9	192.6	201.3	206.8
77.5°	167.2	163.5	162.9	170.3	175.3
80°	134.4	130.1	131.9	140.6	144.9
82.5°	102.2	99.1	99.7	110.2	113.3
85°	68.7	67.5	69.4	78.6	79.3
87.5°	36.5	36.5	37.8	43.4	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)