

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: P293356

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293356  
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-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3612.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 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

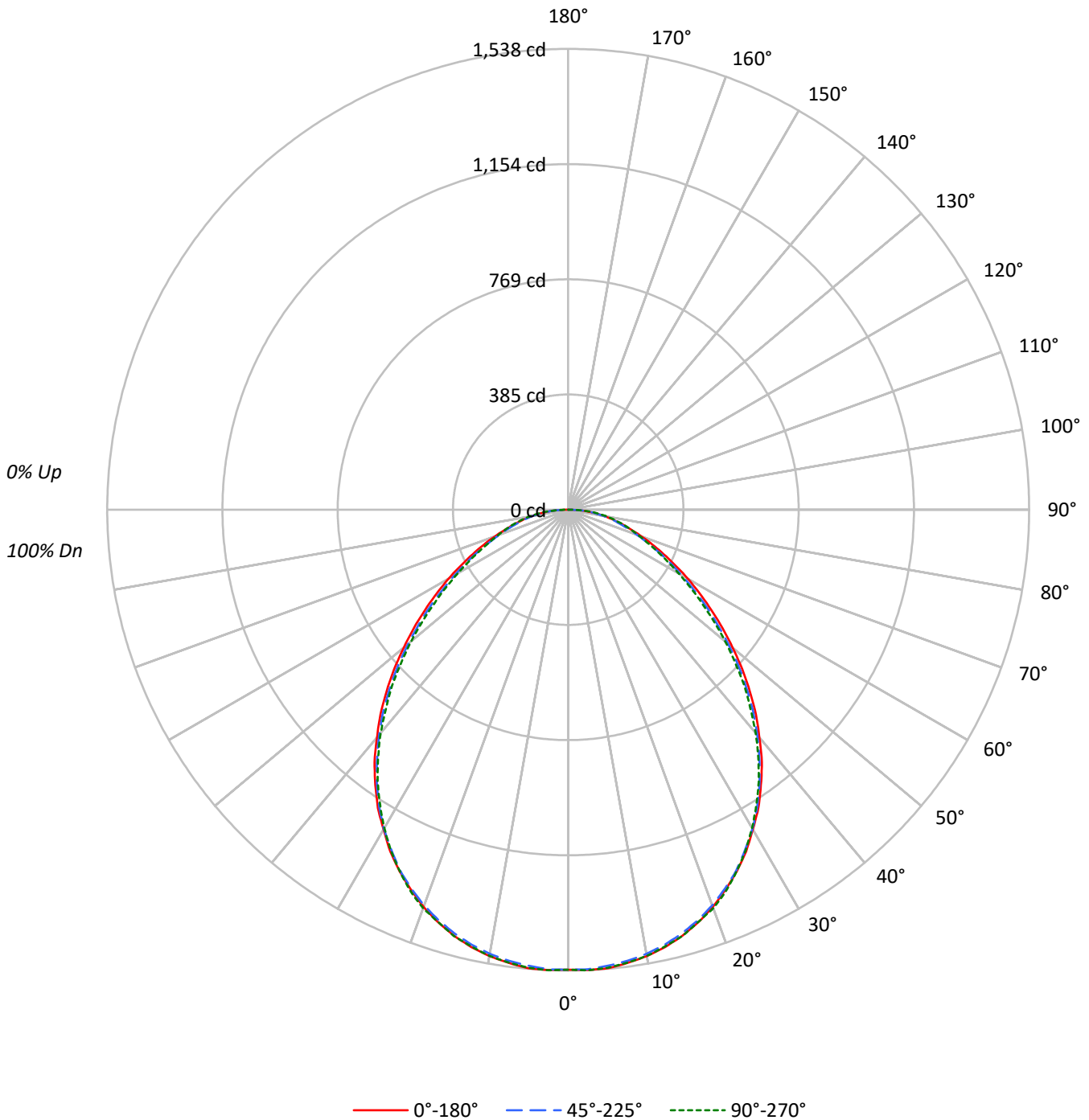
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	73	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°	2065	2065	2065
5°	2075	2063	2072
10°	2066	2056	2066
15°	2050	2039	2052
20°	2020	2012	2027
25°	1976	1971	1976
30°	1914	1911	1906
35°	1842	1828	1820
40°	1743	1723	1710
45°	1631	1601	1581
50°	1499	1458	1433
55°	1367	1316	1278
60°	1241	1174	1144
65°	1118	1055	1037
70°	1024	957	984
75°	957	913	980
80°	949	932	1024
85°	968	976	1116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.3	4.0
10°-20°	413.0	11.4
20°-30°	610.2	16.9
30°-40°	693.7	19.2
40°-50°	647.8	17.9
50°-60°	503.8	13.9
60°-70°	334.3	9.3
70°-80°	193.5	5.4
80°-90°	70.3	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°	1168.5	32.4
0°-40°	1862.2	51.6
0°-60°	3013.9	83.4
0°-90°	3612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3612.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1535	1535	1535	1535	1535	
5°	1536	1528	1528	1531	1534	146
15°	1472	1464	1464	1463	1473	415
25°	1331	1326	1328	1325	1331	612
35°	1121	1116	1113	1105	1108	700
45°	857	850	841	830	831	660
55°	583	574	561	546	545	522
65°	351	340	331	325	326	351
75°	184	180	176	184	189	197
85°	63	62	63	72	72	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1535.1	1535.1	1535.1	1535.1	1535.1
2.5°	1537.4	1532.8	1535.1	1533.4	1538.5
5°	1536.2	1528.3	1527.8	1530.6	1534.0
7.5°	1525.5	1517.0	1518.7	1518.7	1524.4
10°	1512.5	1504.0	1505.2	1505.7	1512.0
12.5°	1495.0	1486.5	1487.1	1486.5	1492.8
15°	1471.9	1464.5	1464.0	1463.4	1473.0
17.5°	1443.6	1433.5	1436.9	1437.4	1442.5
20°	1410.9	1403.0	1405.2	1404.7	1415.4
22.5°	1371.9	1366.3	1368.0	1366.9	1377.0
25°	1331.3	1325.6	1327.9	1325.1	1330.7
27.5°	1285.6	1281.6	1279.3	1277.6	1281.6
30°	1231.9	1229.7	1229.7	1222.3	1226.8
32.5°	1181.1	1173.8	1173.8	1170.9	1168.1
35°	1121.3	1115.6	1112.8	1104.9	1108.3
37.5°	1061.4	1048.4	1047.3	1041.1	1041.1
40°	992.5	985.2	981.2	974.5	973.3
42.5°	927.0	919.7	912.9	901.6	899.4
45°	857.0	850.3	841.2	830.5	831.1
47.5°	787.6	778.0	769.5	756.5	754.8
50°	715.9	709.1	696.7	685.4	684.8
52.5°	648.7	638.0	626.7	613.1	613.1
55°	582.6	574.2	561.2	546.5	544.8
57.5°	519.4	511.5	496.8	486.1	483.3
60°	461.3	450.0	436.4	427.4	425.1
62.5°	403.1	392.9	382.8	373.8	373.2
65°	351.2	340.4	331.4	325.2	325.8
67.5°	304.3	295.3	285.1	283.4	284.0
70°	260.3	250.7	243.3	247.3	250.1
72.5°	218.5	213.4	208.3	214.0	217.9
75°	184.1	179.5	175.6	183.5	188.6
77.5°	152.4	149.0	148.5	155.3	159.8
80°	122.5	118.6	120.3	128.2	132.1
82.5°	93.2	90.3	90.9	100.5	103.3
85°	62.7	61.5	63.2	71.7	72.3
87.5°	33.3	33.3	34.4	39.5	37.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)