

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: P293354

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293354  
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-4500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3487.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 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

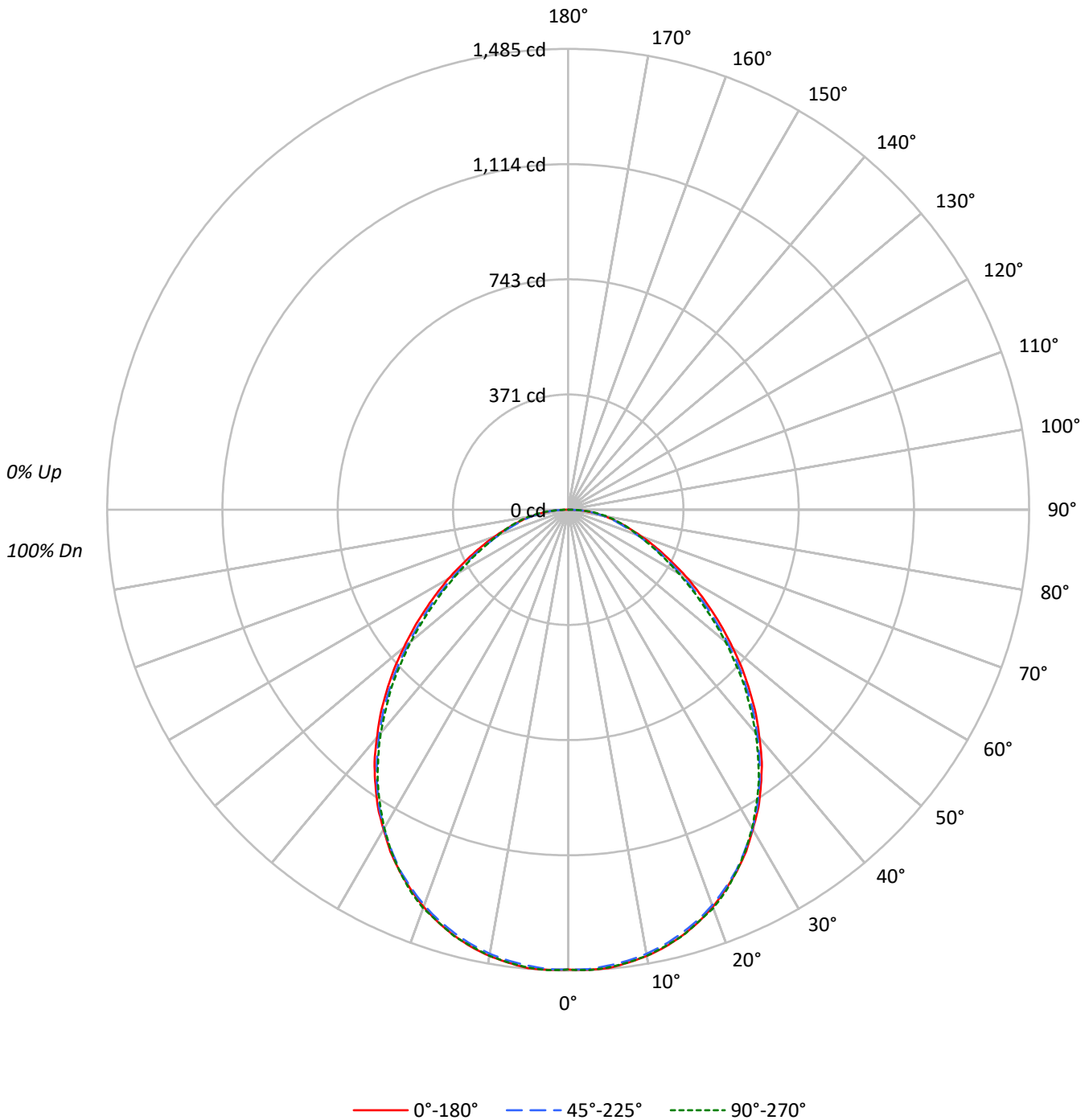
Input Watts (W): 25.854  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1994	1994	1994
5°	2003	1992	2000
10°	1995	1985	1994
15°	1979	1969	1981
20°	1950	1942	1956
25°	1908	1903	1907
30°	1848	1844	1840
35°	1778	1765	1757
40°	1683	1664	1651
45°	1574	1545	1527
50°	1447	1408	1384
55°	1320	1271	1234
60°	1198	1134	1104
65°	1079	1018	1001
70°	989	924	950
75°	924	881	946
80°	917	900	988
85°	934	942	1078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	4.0
10°-20°	398.7	11.4
20°-30°	589.1	16.9
30°-40°	669.7	19.2
40°-50°	625.4	17.9
50°-60°	486.4	13.9
60°-70°	322.7	9.3
70°-80°	186.8	5.4
80°-90°	67.9	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°	1128.1	32.4
0°-40°	1797.8	51.6
0°-60°	2909.6	83.4
0°-90°	3487.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3487.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1482	1482	1482	1482	1482	
5°	1483	1475	1475	1478	1481	141
15°	1421	1414	1413	1413	1422	400
25°	1285	1280	1282	1279	1285	591
35°	1082	1077	1074	1067	1070	676
45°	827	821	812	802	802	638
55°	562	554	542	528	526	504
65°	339	329	320	314	314	339
75°	178	173	170	177	182	190
85°	60	59	61	69	70	66
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1484.2	1479.8	1482.0	1480.3	1485.2
5°	1483.1	1475.4	1474.9	1477.6	1480.9
7.5°	1472.7	1464.5	1466.2	1466.2	1471.6
10°	1460.2	1452.0	1453.1	1453.6	1459.6
12.5°	1443.3	1435.1	1435.6	1435.1	1441.1
15°	1420.9	1413.8	1413.3	1412.8	1422.0
17.5°	1393.7	1383.9	1387.1	1387.7	1392.6
20°	1362.1	1354.4	1356.6	1356.1	1366.4
22.5°	1324.5	1319.0	1320.6	1319.6	1329.4
25°	1285.2	1279.8	1281.9	1279.2	1284.7
27.5°	1241.1	1237.2	1235.1	1233.4	1237.2
30°	1189.3	1187.1	1187.1	1180.0	1184.4
32.5°	1140.2	1133.1	1133.1	1130.4	1127.7
35°	1082.5	1077.0	1074.3	1066.7	1069.9
37.5°	1024.7	1012.1	1011.1	1005.1	1005.1
40°	958.2	951.1	947.3	940.7	939.7
42.5°	895.0	887.9	881.3	870.4	868.3
45°	827.4	820.8	812.1	801.8	802.3
47.5°	760.3	751.1	742.9	730.4	728.7
50°	691.1	684.6	672.6	661.7	661.1
52.5°	626.3	615.9	605.0	591.9	591.9
55°	562.5	554.3	541.8	527.6	526.0
57.5°	501.4	493.8	479.6	469.3	466.6
60°	445.3	434.4	421.3	412.6	410.4
62.5°	389.2	379.4	369.5	360.8	360.3
65°	339.0	328.7	319.9	313.9	314.5
67.5°	293.8	285.1	275.2	273.6	274.2
70°	251.3	242.0	234.9	238.7	241.5
72.5°	210.9	206.0	201.1	206.6	210.4
75°	177.7	173.3	169.5	177.1	182.0
77.5°	147.2	143.9	143.3	149.9	154.2
80°	118.3	114.5	116.1	123.7	127.5
82.5°	89.9	87.2	87.8	97.0	99.7
85°	60.5	59.4	61.0	69.2	69.8
87.5°	32.2	32.2	33.2	38.2	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)