

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: P293351

Luminaire Tested: **24GR-LD5-38-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293351  
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-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: 3136.0 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

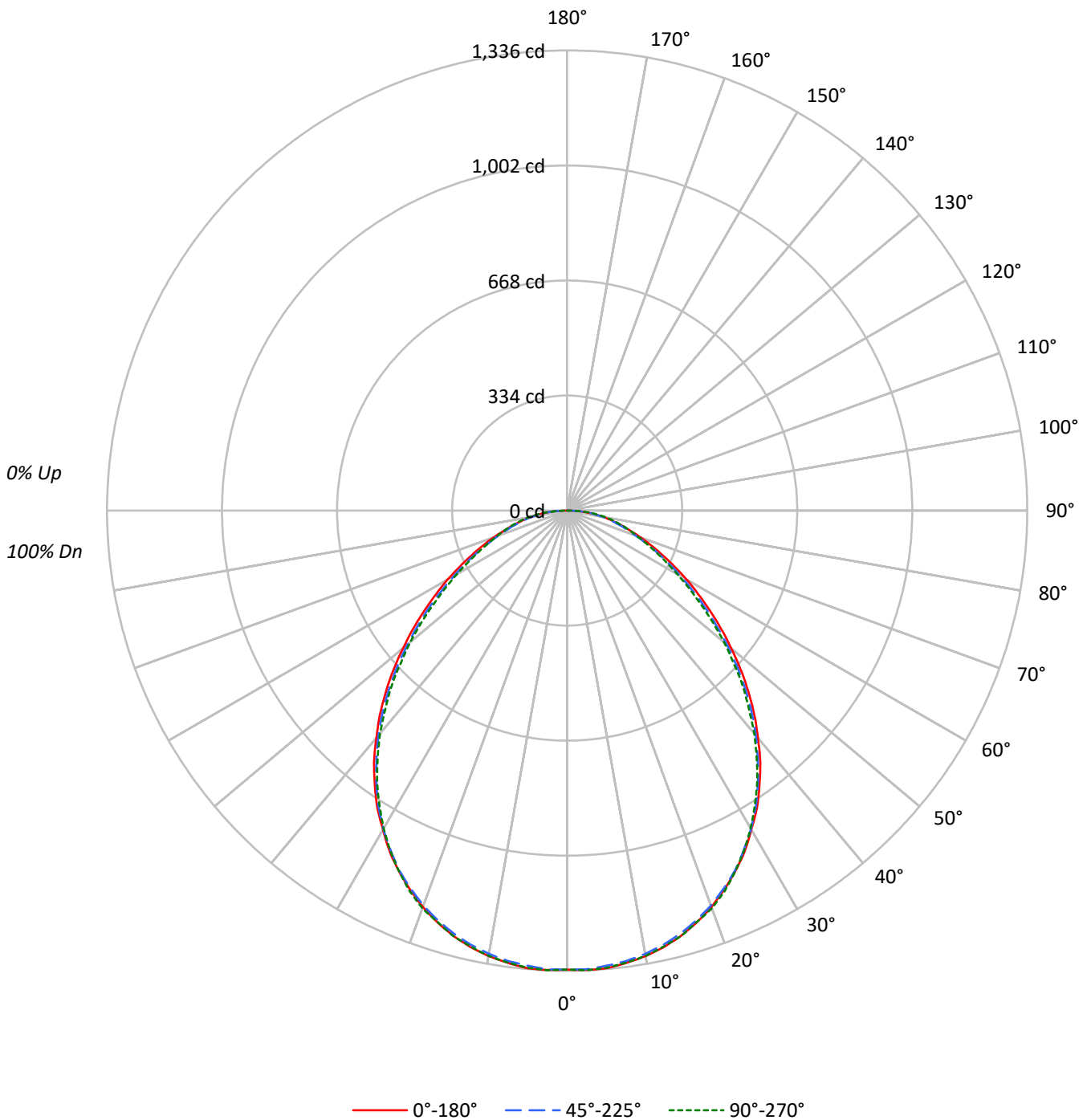
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1793	1793	1793
5°	1801	1791	1799
10°	1794	1785	1793
15°	1780	1770	1781
20°	1754	1747	1760
25°	1716	1712	1715
30°	1662	1659	1655
35°	1599	1587	1580
40°	1513	1496	1484
45°	1416	1390	1373
50°	1301	1266	1245
55°	1187	1143	1110
60°	1078	1020	993
65°	971	916	900
70°	889	831	854
75°	831	792	851
80°	824	809	889
85°	840	848	968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.1	4.0
10°-20°	358.6	11.4
20°-30°	529.8	16.9
30°-40°	602.3	19.2
40°-50°	562.5	17.9
50°-60°	437.4	13.9
60°-70°	290.2	9.3
70°-80°	168.0	5.4
80°-90°	61.1	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°	1014.5	32.4
0°-40°	1616.8	51.6
0°-60°	2616.7	83.4
0°-90°	3136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3136.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1334	1327	1326	1329	1332	127
15°	1278	1272	1271	1270	1279	360
25°	1156	1151	1153	1150	1155	531
35°	974	969	966	959	962	608
45°	744	738	730	721	722	573
55°	506	498	487	474	473	454
65°	305	296	288	282	283	305
75°	160	156	152	159	164	171
85°	54	53	55	62	63	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1332.8	1332.8	1332.8	1332.8	1332.8
2.5°	1334.8	1330.8	1332.8	1331.3	1335.7
5°	1333.8	1326.9	1326.4	1328.9	1331.8
7.5°	1324.5	1317.1	1318.6	1318.6	1323.5
10°	1313.2	1305.8	1306.8	1307.3	1312.7
12.5°	1298.0	1290.6	1291.1	1290.6	1296.0
15°	1277.9	1271.5	1271.0	1270.5	1278.9
17.5°	1253.4	1244.6	1247.5	1248.0	1252.4
20°	1225.0	1218.1	1220.1	1219.6	1228.9
22.5°	1191.1	1186.2	1187.7	1186.7	1195.5
25°	1155.8	1150.9	1152.9	1150.5	1155.4
27.5°	1116.1	1112.7	1110.7	1109.3	1112.7
30°	1069.6	1067.6	1067.6	1061.2	1065.2
32.5°	1025.5	1019.1	1019.1	1016.6	1014.2
35°	973.5	968.6	966.1	959.3	962.2
37.5°	921.5	910.3	909.3	903.9	903.9
40°	861.7	855.4	851.9	846.1	845.1
42.5°	804.9	798.5	792.6	782.8	780.9
45°	744.1	738.2	730.4	721.1	721.5
47.5°	683.8	675.5	668.1	656.8	655.4
50°	621.5	615.7	604.9	595.1	594.6
52.5°	563.2	553.9	544.1	532.3	532.3
55°	505.9	498.5	487.2	474.5	473.0
57.5°	451.0	444.1	431.4	422.0	419.6
60°	400.5	390.7	378.9	371.1	369.1
62.5°	350.0	341.2	332.3	324.5	324.0
65°	304.9	295.6	287.7	282.3	282.8
67.5°	264.2	256.4	247.5	246.1	246.6
70°	226.0	217.6	211.3	214.7	217.1
72.5°	189.7	185.3	180.9	185.8	189.2
75°	159.8	155.9	152.4	159.3	163.7
77.5°	132.3	129.4	128.9	134.8	138.7
80°	106.4	102.9	104.4	111.3	114.7
82.5°	80.9	78.4	78.9	87.3	89.7
85°	54.4	53.4	54.9	62.3	62.7
87.5°	28.9	28.9	29.9	34.3	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)