

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: P293602

Luminaire Tested: **24GR-LD5-38-A-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-A-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3051.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

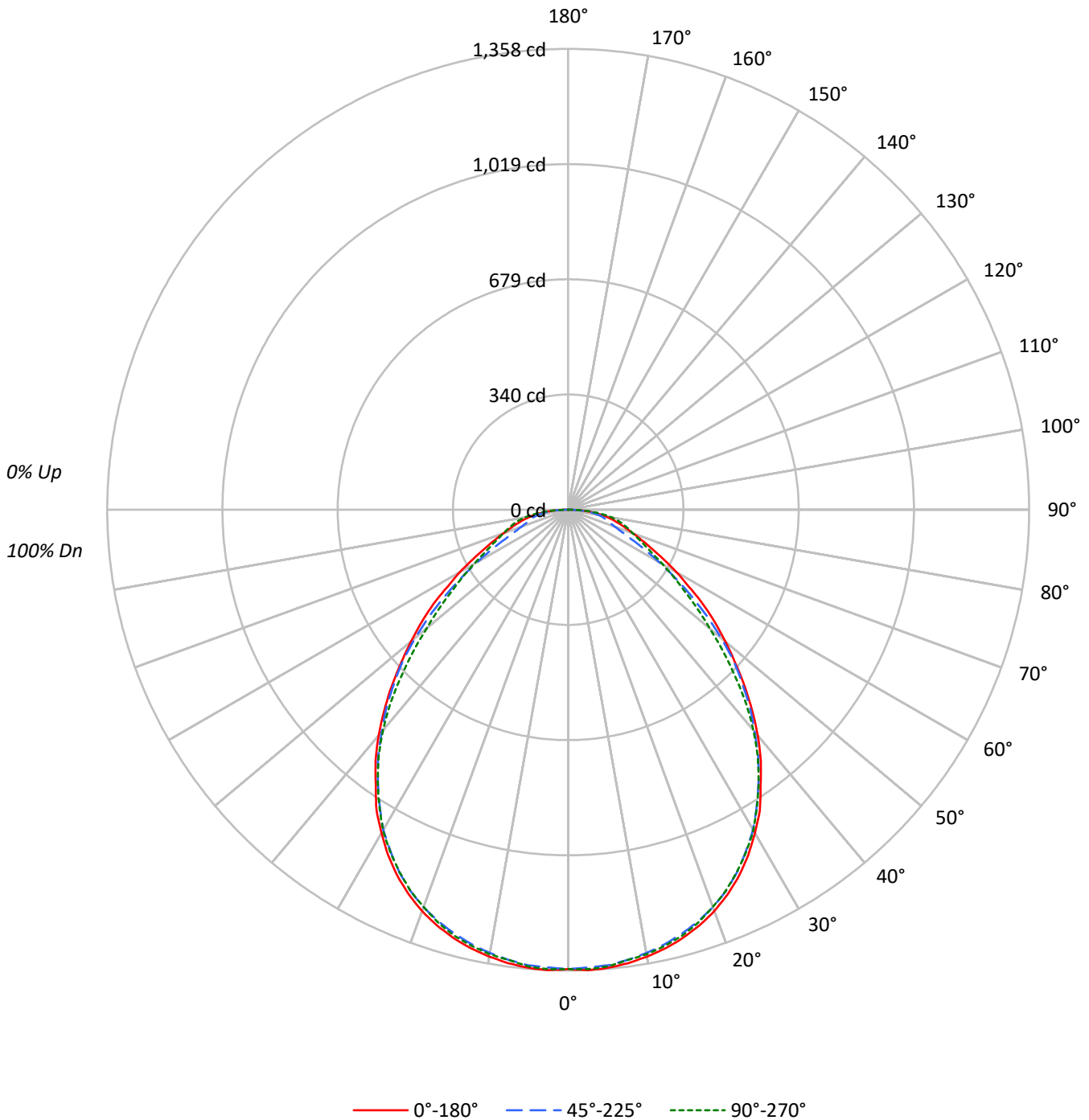
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63																												
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55																												
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49																												
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43																												
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																												
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35																												
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																												
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1821	1821	1821
5°	1830	1820	1825
10°	1827	1812	1817
15°	1820	1802	1809
20°	1803	1784	1784
25°	1768	1749	1747
30°	1709	1692	1695
35°	1623	1605	1607
40°	1527	1500	1491
45°	1399	1380	1325
50°	1265	1230	1138
55°	1136	1034	981
60°	994	832	862
65°	867	654	794
70°	793	571	793
75°	794	608	875
80°	862	716	997
85°	946	807	1070



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	4.2
10°-20°	365.8	12.0
20°-30°	542.5	17.8
30°-40°	611.9	20.1
40°-50°	554.3	18.2
50°-60°	399.9	13.1
60°-70°	238.7	7.8
70°-80°	147.6	4.8
80°-90°	62.2	2.0
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°	1036.5	34.0
0°-40°	1648.4	54.0
0°-60°	2602.5	85.3
0°-90°	3051.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3051.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1355	1353	1348	1346	1351	129
15°	1307	1298	1293	1294	1299	368
25°	1191	1184	1178	1174	1177	547
35°	988	987	977	978	978	618
45°	735	731	725	708	697	567
55°	484	469	441	419	418	432
65°	272	240	206	233	249	274
75°	153	132	117	146	168	163
85°	61	54	52	68	69	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.7	1353.7	1353.7	1353.7	1353.7
2.5°	1358.4	1354.6	1349.9	1352.8	1355.1
5°	1355.1	1353.2	1347.6	1346.2	1350.9
7.5°	1348.0	1343.3	1338.1	1340.5	1338.6
10°	1337.2	1333.0	1326.4	1326.8	1330.1
12.5°	1324.0	1318.8	1311.7	1313.6	1316.5
15°	1306.6	1298.5	1293.4	1293.8	1299.0
17.5°	1284.4	1278.3	1271.7	1273.1	1275.5
20°	1259.0	1255.7	1246.2	1243.4	1245.8
22.5°	1226.9	1220.8	1215.6	1214.2	1214.6
25°	1190.6	1184.0	1177.9	1173.6	1176.9
27.5°	1148.2	1142.5	1134.5	1133.1	1135.9
30°	1100.1	1095.9	1088.8	1086.9	1091.2
32.5°	1051.1	1044.0	1034.1	1034.1	1035.1
35°	988.4	987.0	977.1	977.6	978.5
37.5°	931.8	925.2	919.6	913.9	916.8
40°	869.2	861.6	854.1	850.3	848.9
42.5°	801.8	796.1	792.8	779.1	775.8
45°	735.3	730.6	725.4	707.5	696.6
47.5°	667.4	666.5	662.2	630.7	619.8
50°	604.3	602.8	587.8	554.3	543.5
52.5°	544.4	535.0	515.2	482.2	480.3
55°	484.1	469.0	440.7	419.0	418.1
57.5°	420.4	402.5	373.8	362.0	368.1
60°	369.5	342.2	309.2	310.6	320.5
62.5°	316.7	286.1	253.6	267.7	279.5
65°	272.4	239.9	205.5	233.3	249.3
67.5°	233.8	203.6	170.6	207.9	223.4
70°	201.7	177.2	145.2	184.3	201.7
72.5°	176.3	153.7	128.7	165.4	185.7
75°	152.7	132.4	116.9	145.6	168.3
77.5°	132.4	112.7	105.6	128.7	150.8
80°	111.2	93.3	92.4	112.2	128.7
82.5°	86.7	74.5	74.5	93.8	103.7
85°	61.3	53.7	52.3	68.3	69.3
87.5°	31.6	30.2	27.3	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)