

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: P293098

Luminaire Tested: **24GR-LD5-38-F1-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-F1-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3015.0 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

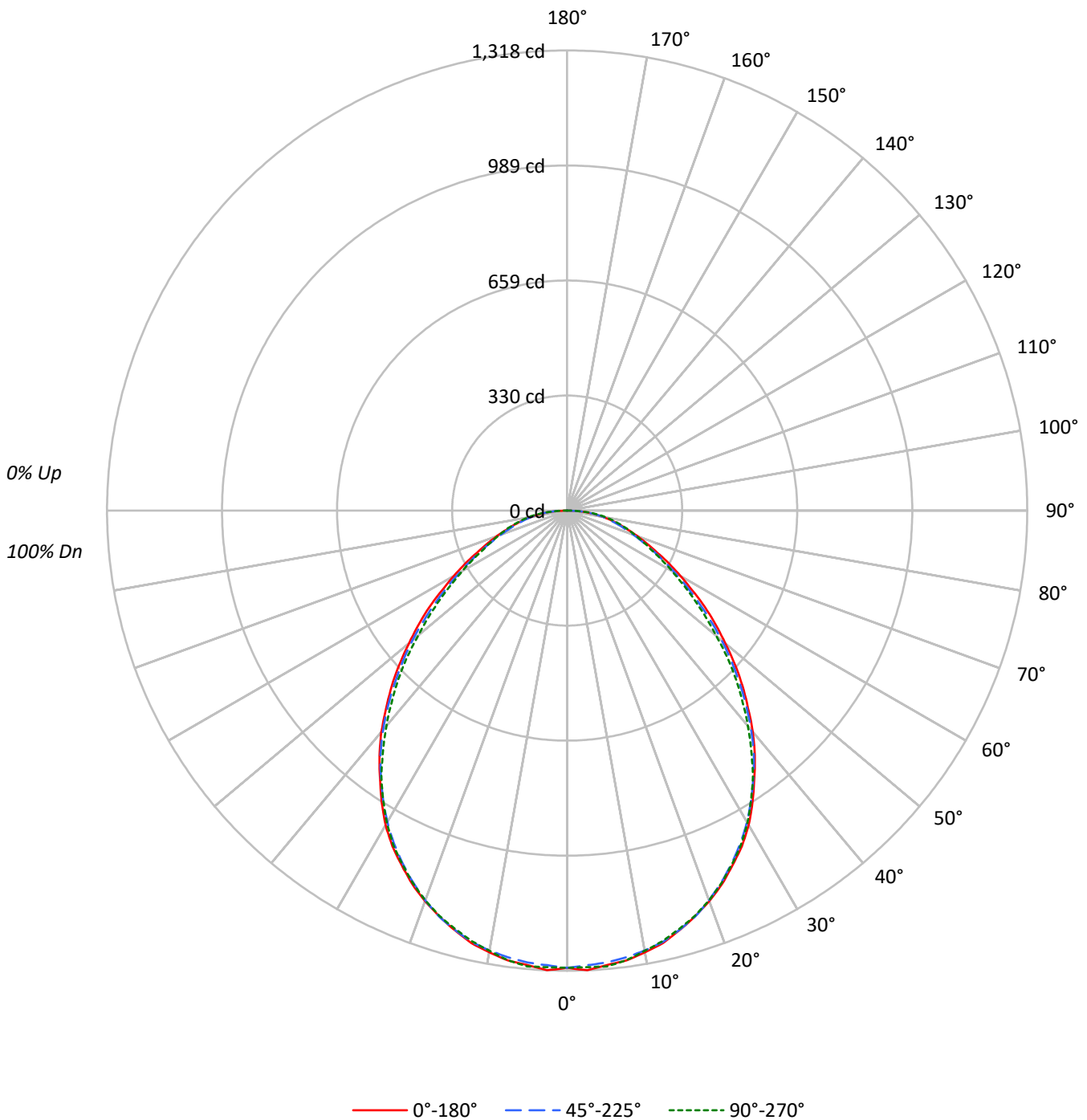
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	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	45	56	49	44	54	48	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1762	1762	1762
5°	1765	1755	1770
10°	1755	1748	1749
15°	1733	1732	1727
20°	1704	1701	1701
25°	1665	1655	1659
30°	1616	1600	1605
35°	1535	1528	1524
40°	1454	1441	1415
45°	1351	1328	1302
50°	1238	1211	1165
55°	1130	1080	1043
60°	1008	959	934
65°	907	859	848
70°	841	790	822
75°	805	769	834
80°	805	805	891
85°	835	844	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	4.1
10°-20°	350.0	11.6
20°-30°	513.7	17.0
30°-40°	580.8	19.3
40°-50°	536.7	17.8
50°-60°	413.5	13.7
60°-70°	273.8	9.1
70°-80°	163.0	5.4
80°-90°	59.7	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°	987.4	32.7
0°-40°	1568.1	52.0
0°-60°	2518.4	83.5
0°-90°	3015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1306	1306	1299	1300	1310	124
15°	1244	1242	1243	1242	1240	351
25°	1121	1118	1115	1114	1118	516
35°	935	933	930	926	928	585
45°	710	705	698	685	684	547
55°	482	472	460	448	445	430
65°	285	280	270	267	266	286
75°	155	151	148	155	160	165
85°	54	51	55	60	61	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1309.6	1309.6	1309.6	1309.6	1309.6
2.5°	1317.7	1310.9	1303.4	1303.4	1309.0
5°	1306.5	1306.5	1299.1	1299.7	1310.3
7.5°	1299.7	1296.0	1291.0	1291.0	1299.1
10°	1284.8	1281.7	1279.2	1277.9	1280.4
12.5°	1268.6	1263.6	1265.5	1263.6	1263.0
15°	1244.3	1241.9	1243.1	1242.5	1240.0
17.5°	1218.2	1217.0	1219.5	1215.1	1217.0
20°	1190.2	1186.5	1187.8	1185.3	1187.8
22.5°	1158.5	1156.0	1152.9	1149.8	1154.8
25°	1121.2	1118.1	1115.0	1113.8	1117.5
27.5°	1083.9	1078.9	1074.6	1073.3	1078.9
30°	1040.4	1034.8	1029.8	1028.6	1032.9
32.5°	988.8	987.5	981.3	978.8	980.7
35°	934.7	933.4	930.3	926.0	927.8
37.5°	883.0	882.4	878.1	870.6	865.6
40°	827.7	823.3	820.2	809.7	805.9
42.5°	766.8	765.5	759.9	748.1	743.7
45°	710.2	705.2	697.7	685.3	684.0
47.5°	651.7	644.9	638.0	622.5	621.9
50°	591.4	586.4	578.3	562.8	556.6
52.5°	535.4	528.6	517.4	502.5	499.4
55°	481.9	472.0	460.2	447.7	444.6
57.5°	424.7	420.4	406.1	396.1	392.4
60°	374.4	370.6	356.3	347.0	347.0
62.5°	329.0	323.4	310.9	304.7	304.7
65°	284.8	280.5	269.9	267.4	266.2
67.5°	246.9	241.3	233.8	233.2	236.3
70°	213.9	207.1	200.9	207.1	208.9
72.5°	182.8	178.5	172.9	181.0	184.7
75°	154.8	151.1	148.0	154.8	160.4
77.5°	129.3	125.6	125.6	133.1	138.1
80°	103.9	101.4	103.9	110.1	115.0
82.5°	79.6	77.7	80.8	87.1	90.2
85°	54.1	51.0	54.7	60.3	60.9
87.5°	25.5	24.9	27.4	31.1	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)