

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: P294366

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

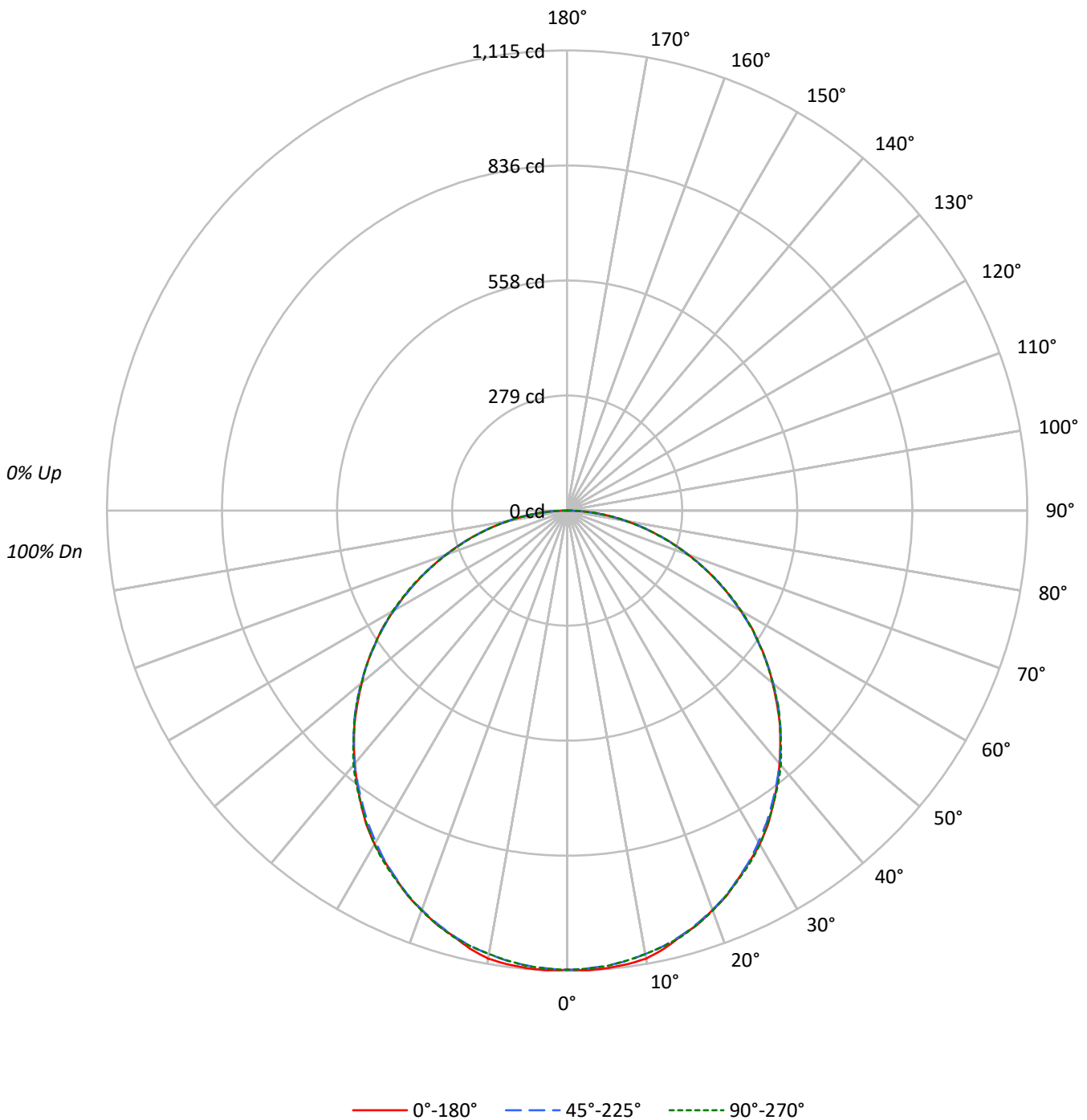
Input Watts (W): 26.598
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1497	1497	1497
5°	1503	1495	1496
10°	1506	1491	1491
15°	1486	1485	1488
20°	1475	1474	1477
25°	1459	1458	1463
30°	1450	1441	1451
35°	1430	1422	1430
40°	1406	1407	1415
45°	1386	1390	1387
50°	1360	1364	1361
55°	1339	1335	1339
60°	1307	1303	1315
65°	1267	1272	1277
70°	1226	1232	1223
75°	1183	1183	1183
80°	1117	1117	1129
85°	1031	1044	1008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	3.3
10°-20°	300.8	9.4
20°-30°	453.3	14.2
30°-40°	543.0	17.1
40°-50°	562.0	17.7
50°-60°	509.6	16.0
60°-70°	395.1	12.4
70°-80°	240.3	7.5
80°-90°	74.7	2.3
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°	859.4	27.0
0°-40°	1402.3	44.0
0°-60°	2473.9	77.7
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1113	1106	1107	1105	1108	106
15°	1067	1068	1066	1062	1068	302
25°	983	983	982	985	985	454
35°	870	864	866	870	870	544
45°	728	730	731	728	729	561
55°	571	568	569	571	571	510
65°	398	400	400	398	401	395
75°	228	227	228	227	228	240
85°	67	66	68	67	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.8	1112.8	1112.8	1112.8	1112.8
2.5°	1115.1	1110.6	1110.6	1109.1	1111.3
5°	1112.8	1106.1	1106.8	1105.3	1107.6
7.5°	1109.1	1100.1	1100.8	1099.3	1100.1
10°	1102.3	1091.8	1091.1	1090.3	1091.1
12.5°	1087.3	1081.3	1080.6	1079.1	1081.3
15°	1067.0	1067.8	1066.3	1062.5	1068.5
17.5°	1051.3	1050.5	1049.0	1045.3	1051.3
20°	1030.2	1031.0	1029.5	1028.0	1031.7
22.5°	1010.0	1007.7	1008.5	1007.7	1008.5
25°	982.9	982.9	982.2	985.2	985.2
27.5°	958.2	955.2	956.7	959.7	961.2
30°	933.4	925.9	927.4	930.4	934.1
32.5°	904.1	896.6	898.1	901.1	902.6
35°	870.3	864.3	865.8	869.6	870.3
37.5°	835.8	832.0	833.5	836.5	838.8
40°	800.5	799.0	801.2	800.5	805.7
42.5°	764.4	763.7	765.9	765.9	766.7
45°	728.4	729.9	730.6	727.6	729.1
47.5°	688.6	689.3	692.3	690.8	691.6
50°	649.5	648.8	651.8	652.5	650.3
52.5°	612.0	608.2	611.2	612.7	611.2
55°	570.7	567.7	569.2	571.4	570.7
57.5°	530.1	527.1	527.9	531.6	530.1
60°	485.8	485.1	484.3	487.3	488.8
62.5°	442.3	441.5	440.0	443.0	444.5
65°	398.0	400.2	399.5	398.0	401.0
67.5°	355.9	358.2	355.9	354.4	354.4
70°	311.6	313.9	313.1	311.6	310.9
72.5°	270.3	270.3	268.8	268.1	268.8
75°	227.5	226.8	227.5	226.8	227.5
77.5°	185.5	186.2	186.2	186.2	185.5
80°	144.2	144.2	144.2	144.9	145.7
82.5°	105.9	103.6	105.9	104.4	105.1
85°	66.8	66.1	67.6	66.8	65.3
87.5°	30.0	30.8	30.8	31.5	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)