

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: P294232

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294232
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3079.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

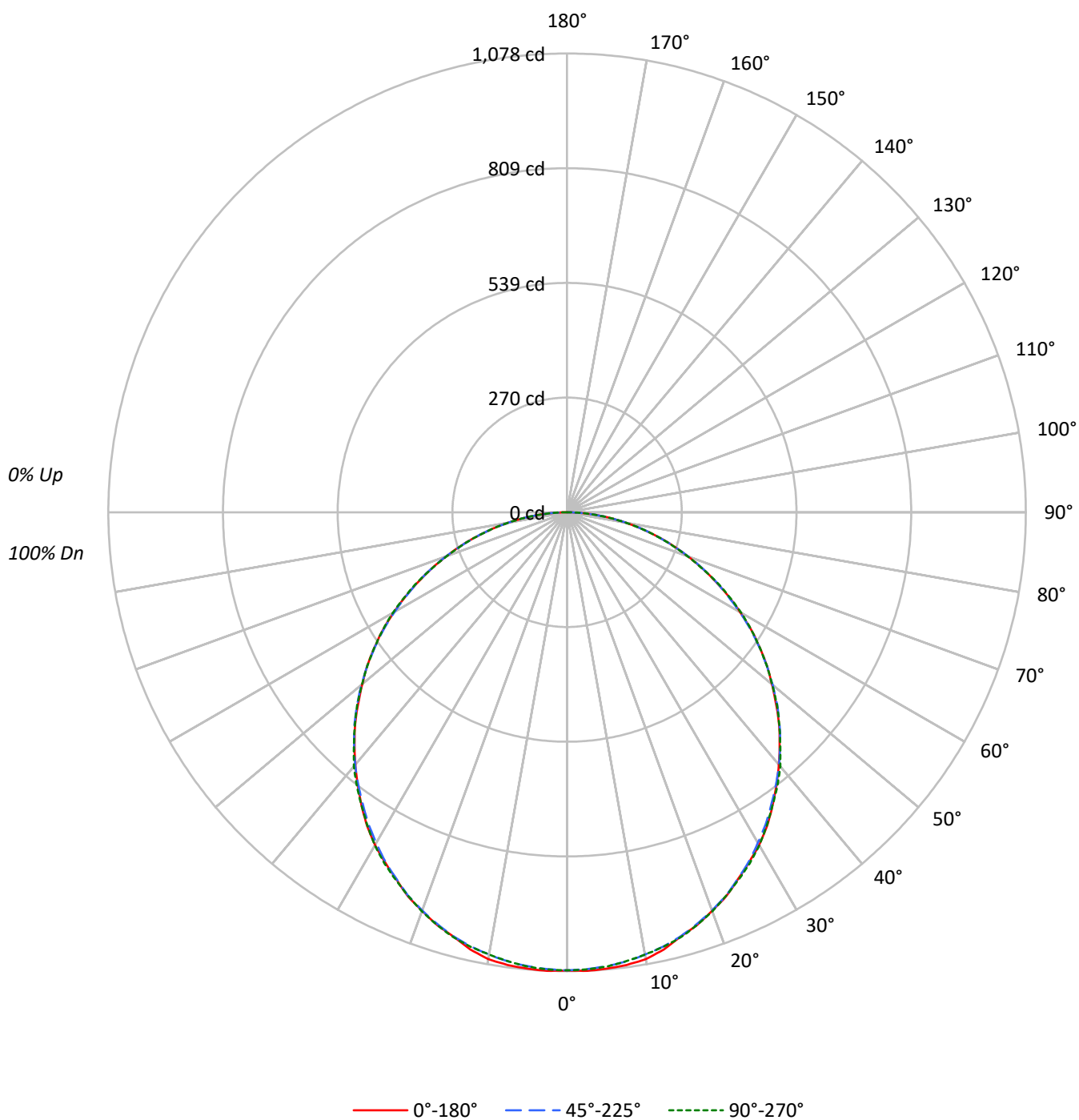
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1448	1448	1448
5°	1453	1446	1447
10°	1456	1442	1442
15°	1437	1436	1439
20°	1427	1425	1429
25°	1411	1410	1414
30°	1402	1393	1403
35°	1382	1375	1382
40°	1360	1361	1369
45°	1340	1344	1342
50°	1315	1319	1316
55°	1295	1291	1295
60°	1264	1260	1272
65°	1225	1230	1235
70°	1185	1191	1183
75°	1144	1144	1144
80°	1080	1080	1092
85°	997	1010	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.8	3.3
10°-20°	290.9	9.4
20°-30°	438.4	14.2
30°-40°	525.0	17.1
40°-50°	543.5	17.7
50°-60°	492.8	16.0
60°-70°	382.1	12.4
70°-80°	232.3	7.5
80°-90°	72.3	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°	831.0	27.0
0°-40°	1356.1	44.0
0°-60°	2392.3	77.7
0°-90°	3079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1076	1070	1070	1069	1071	102
15°	1032	1033	1031	1028	1033	292
25°	950	950	950	953	953	439
35°	842	836	837	841	842	526
45°	704	706	706	704	705	543
55°	552	549	550	553	552	493
65°	385	387	386	385	388	382
75°	220	219	220	219	220	232
85°	65	64	65	65	63	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1076.1	1076.1	1076.1	1076.1	1076.1
2.5°	1078.3	1074.0	1074.0	1072.5	1074.7
5°	1076.1	1069.6	1070.3	1068.9	1071.1
7.5°	1072.5	1063.8	1064.5	1063.1	1063.8
10°	1066.0	1055.8	1055.1	1054.4	1055.1
12.5°	1051.5	1045.6	1044.9	1043.5	1045.6
15°	1031.9	1032.6	1031.1	1027.5	1033.3
17.5°	1016.6	1015.9	1014.4	1010.8	1016.6
20°	996.3	997.0	995.5	994.1	997.7
22.5°	976.7	974.5	975.2	974.5	975.2
25°	950.5	950.5	949.8	952.7	952.7
27.5°	926.6	923.7	925.1	928.0	929.5
30°	902.6	895.3	896.8	899.7	903.3
32.5°	874.3	867.0	868.5	871.4	872.8
35°	841.6	835.8	837.2	840.9	841.6
37.5°	808.2	804.6	806.0	808.9	811.1
40°	774.1	772.6	774.8	774.1	779.2
42.5°	739.2	738.5	740.7	740.7	741.4
45°	704.4	705.8	706.5	703.6	705.1
47.5°	665.9	666.6	669.5	668.1	668.8
50°	628.1	627.4	630.3	631.0	628.8
52.5°	591.8	588.2	591.1	592.5	591.1
55°	551.9	549.0	550.4	552.6	551.9
57.5°	512.7	509.8	510.5	514.1	512.7
60°	469.8	469.1	468.4	471.3	472.7
62.5°	427.7	427.0	425.5	428.4	429.9
65°	384.9	387.0	386.3	384.9	387.8
67.5°	344.2	346.4	344.2	342.7	342.7
70°	301.3	303.5	302.8	301.3	300.6
72.5°	261.4	261.4	260.0	259.2	260.0
75°	220.0	219.3	220.0	219.3	220.0
77.5°	179.4	180.1	180.1	180.1	179.4
80°	139.4	139.4	139.4	140.1	140.9
82.5°	102.4	100.2	102.4	100.9	101.7
85°	64.6	63.9	65.4	64.6	63.2
87.5°	29.0	29.8	29.8	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)