

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: P294239

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294239
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3498.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

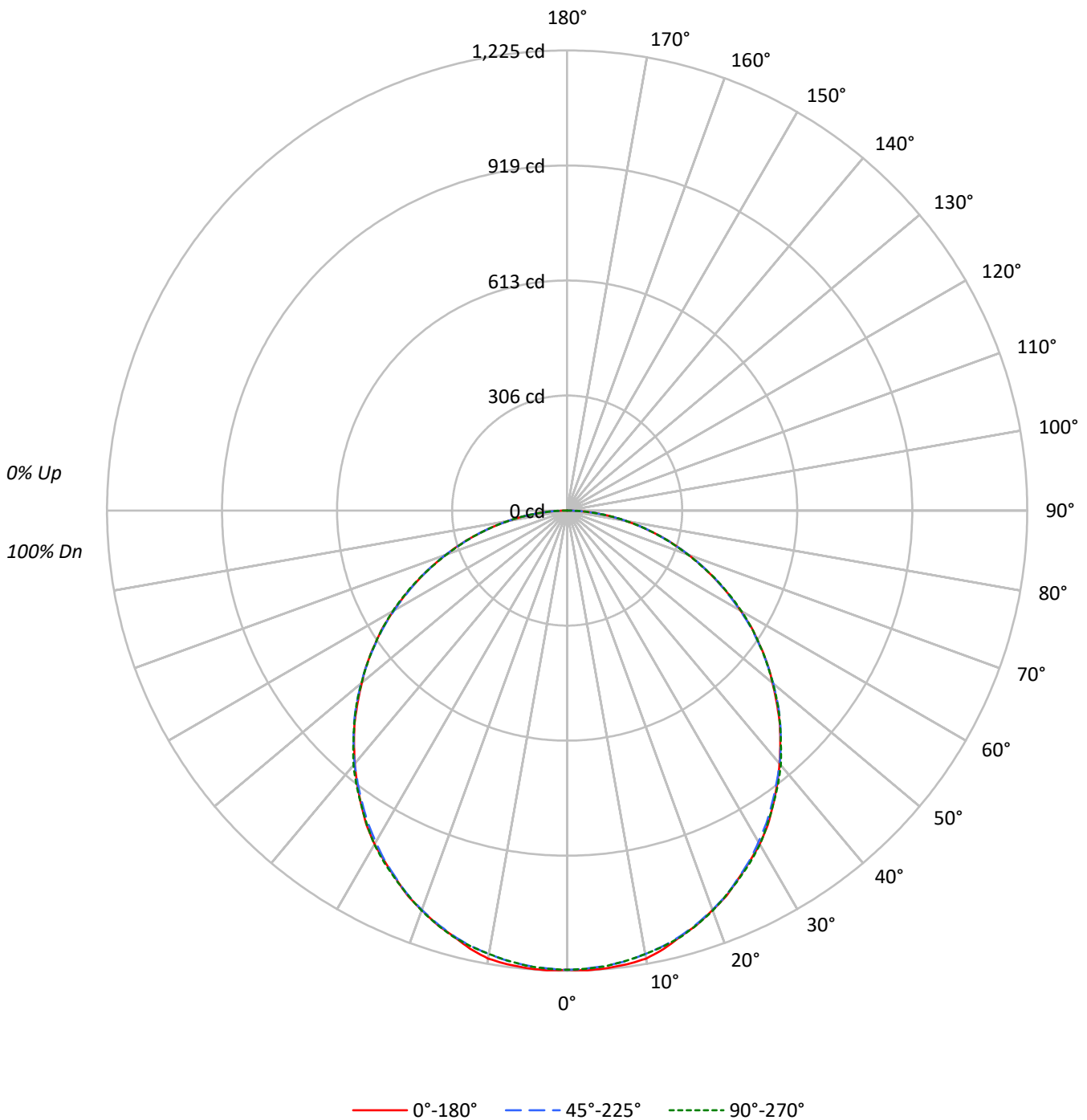
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1645	1645	1645
5°	1651	1642	1643
10°	1655	1638	1638
15°	1633	1632	1635
20°	1621	1619	1623
25°	1603	1602	1607
30°	1593	1583	1594
35°	1570	1562	1570
40°	1545	1546	1555
45°	1523	1527	1524
50°	1494	1499	1495
55°	1471	1467	1471
60°	1436	1432	1445
65°	1392	1397	1402
70°	1347	1353	1343
75°	1300	1300	1300
80°	1227	1227	1240
85°	1133	1145	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.3
10°-20°	330.5	9.4
20°-30°	498.0	14.2
30°-40°	596.5	17.1
40°-50°	617.5	17.7
50°-60°	559.8	16.0
60°-70°	434.0	12.4
70°-80°	264.0	7.5
80°-90°	82.1	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°	944.1	27.0
0°-40°	1540.6	44.0
0°-60°	2717.9	77.7
0°-90°	3498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3498.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1223	1215	1216	1214	1217	116
15°	1172	1173	1171	1167	1174	331
25°	1080	1080	1079	1082	1082	498
35°	956	950	951	955	956	598
45°	800	802	803	799	801	616
55°	627	624	625	628	627	560
65°	437	440	439	437	440	434
75°	250	249	250	249	250	264
85°	73	73	74	73	72	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.6	1222.6	1222.6	1222.6	1222.6
2.5°	1225.1	1220.1	1220.1	1218.5	1220.9
5°	1222.6	1215.2	1216.0	1214.3	1216.8
7.5°	1218.5	1208.6	1209.4	1207.7	1208.6
10°	1211.0	1199.5	1198.7	1197.8	1198.7
12.5°	1194.5	1187.9	1187.1	1185.5	1187.9
15°	1172.3	1173.1	1171.4	1167.3	1173.9
17.5°	1154.9	1154.1	1152.5	1148.3	1154.9
20°	1131.8	1132.7	1131.0	1129.4	1133.5
22.5°	1109.6	1107.1	1107.9	1107.1	1107.9
25°	1079.9	1079.9	1079.0	1082.3	1082.3
27.5°	1052.6	1049.3	1051.0	1054.3	1055.9
30°	1025.4	1017.2	1018.8	1022.1	1026.3
32.5°	993.3	985.0	986.7	990.0	991.6
35°	956.1	949.5	951.2	955.3	956.1
37.5°	918.2	914.1	915.7	919.0	921.5
40°	879.4	877.8	880.2	879.4	885.2
42.5°	839.8	839.0	841.5	841.5	842.3
45°	800.2	801.9	802.7	799.4	801.0
47.5°	756.5	757.3	760.6	759.0	759.8
50°	713.6	712.8	716.1	716.9	714.4
52.5°	672.3	668.2	671.5	673.2	671.5
55°	627.0	623.7	625.3	627.8	627.0
57.5°	582.4	579.1	579.9	584.1	582.4
60°	533.7	532.9	532.1	535.4	537.0
62.5°	485.9	485.1	483.4	486.7	488.4
65°	437.2	439.7	438.9	437.2	440.5
67.5°	391.0	393.5	391.0	389.4	389.4
70°	342.4	344.8	344.0	342.4	341.5
72.5°	297.0	297.0	295.3	294.5	295.3
75°	250.0	249.1	250.0	249.1	250.0
77.5°	203.8	204.6	204.6	204.6	203.8
80°	158.4	158.4	158.4	159.2	160.0
82.5°	116.3	113.8	116.3	114.7	115.5
85°	73.4	72.6	74.2	73.4	71.8
87.5°	33.0	33.8	33.8	34.6	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)