

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: P294313

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294313
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-LD5-42-FGW080-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3414.0 lumens
Efficiency: N/A
Efficacy: 117.0 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

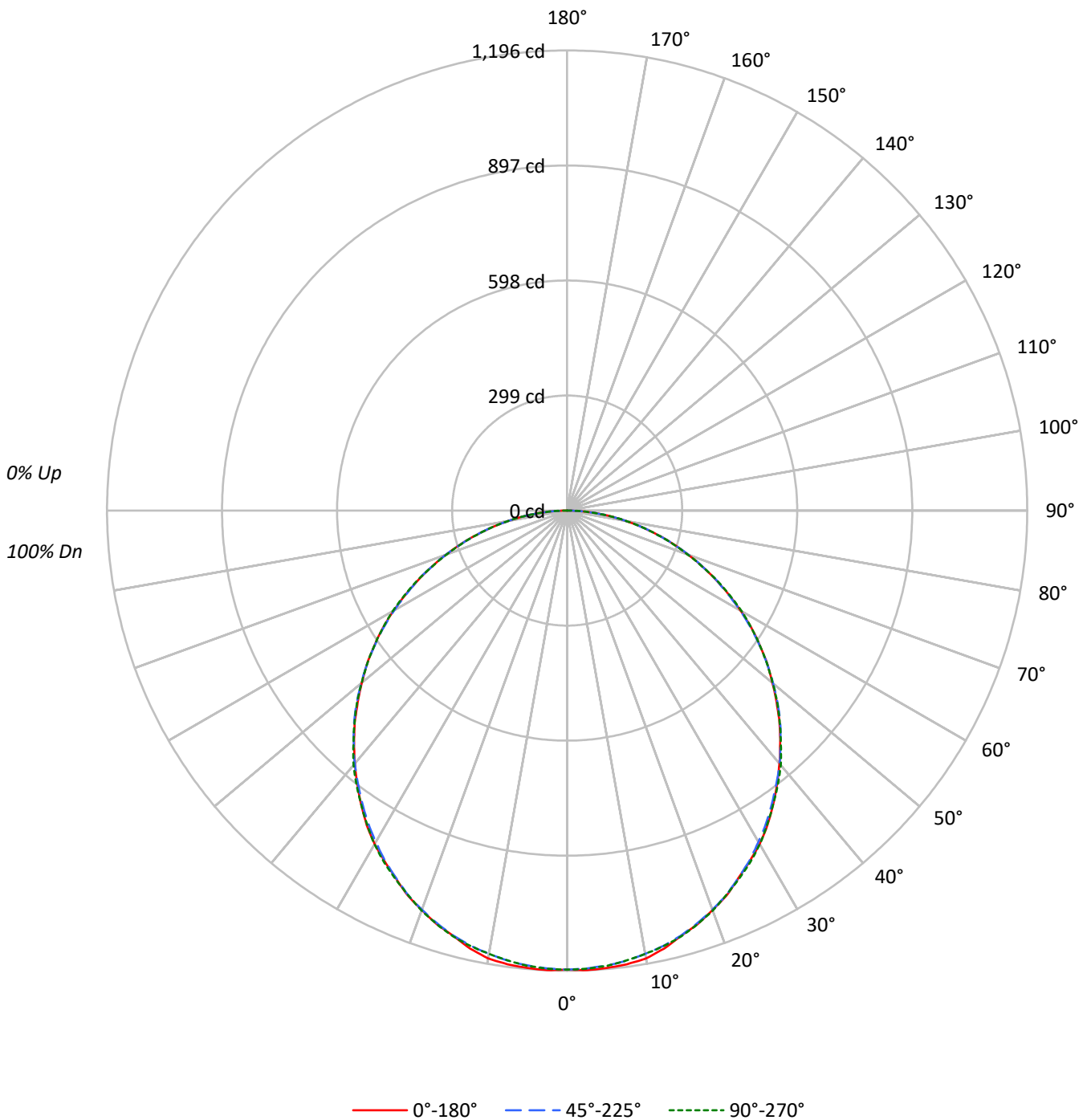
Input Watts (W): 29.168706
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1605	1605	1605
5°	1612	1603	1604
10°	1615	1598	1598
15°	1594	1593	1596
20°	1582	1581	1584
25°	1565	1563	1568
30°	1555	1545	1556
35°	1533	1525	1533
40°	1508	1509	1517
45°	1486	1491	1488
50°	1458	1463	1460
55°	1435	1432	1435
60°	1402	1397	1411
65°	1358	1364	1369
70°	1314	1321	1311
75°	1268	1268	1268
80°	1198	1198	1210
85°	1107	1119	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.3
10°-20°	322.5	9.4
20°-30°	486.1	14.2
30°-40°	582.2	17.1
40°-50°	602.6	17.7
50°-60°	546.4	16.0
60°-70°	423.6	12.4
70°-80°	257.6	7.5
80°-90°	80.1	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°	921.4	27.0
0°-40°	1503.6	44.0
0°-60°	2652.6	77.7
0°-90°	3414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1193	1193	1193	1193	1193	
5°	1193	1186	1187	1185	1188	114
15°	1144	1145	1143	1139	1146	323
25°	1054	1054	1053	1056	1056	487
35°	933	927	928	932	933	584
45°	781	783	783	780	782	602
55°	612	609	610	613	612	547
65°	427	429	428	427	430	423
75°	244	243	244	243	244	258
85°	72	71	72	72	70	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1193.2	1193.2	1193.2	1193.2	1193.2
2.5°	1195.6	1190.8	1190.8	1189.2	1191.6
5°	1193.2	1186.0	1186.8	1185.2	1187.6
7.5°	1189.2	1179.5	1180.3	1178.7	1179.5
10°	1182.0	1170.7	1169.9	1169.1	1169.9
12.5°	1165.9	1159.4	1158.6	1157.0	1159.4
15°	1144.1	1144.9	1143.3	1139.3	1145.7
17.5°	1127.2	1126.4	1124.8	1120.8	1127.2
20°	1104.7	1105.5	1103.9	1102.3	1106.3
22.5°	1082.9	1080.5	1081.3	1080.5	1081.3
25°	1053.9	1053.9	1053.1	1056.4	1056.4
27.5°	1027.4	1024.2	1025.8	1029.0	1030.6
30°	1000.8	992.7	994.4	997.6	1001.6
32.5°	969.4	961.3	963.0	966.2	967.8
35°	933.2	926.7	928.3	932.4	933.2
37.5°	896.1	892.1	893.7	896.9	899.4
40°	858.3	856.7	859.1	858.3	863.9
42.5°	819.6	818.8	821.3	821.3	822.1
45°	781.0	782.6	783.4	780.2	781.8
47.5°	738.3	739.1	742.3	740.7	741.5
50°	696.5	695.6	698.9	699.7	697.3
52.5°	656.2	652.2	655.4	657.0	655.4
55°	611.9	608.7	610.3	612.7	611.9
57.5°	568.4	565.2	566.0	570.0	568.4
60°	520.9	520.1	519.3	522.5	524.2
62.5°	474.2	473.4	471.8	475.0	476.6
65°	426.7	429.1	428.3	426.7	430.0
67.5°	381.6	384.1	381.6	380.0	380.0
70°	334.1	336.6	335.7	334.1	333.3
72.5°	289.9	289.9	288.2	287.4	288.2
75°	244.0	243.2	244.0	243.2	244.0
77.5°	198.9	199.7	199.7	199.7	198.9
80°	154.6	154.6	154.6	155.4	156.2
82.5°	113.5	111.1	113.5	111.9	112.7
85°	71.7	70.9	72.5	71.7	70.0
87.5°	32.2	33.0	33.0	33.8	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)