

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: P294248

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294248
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-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: 3811.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

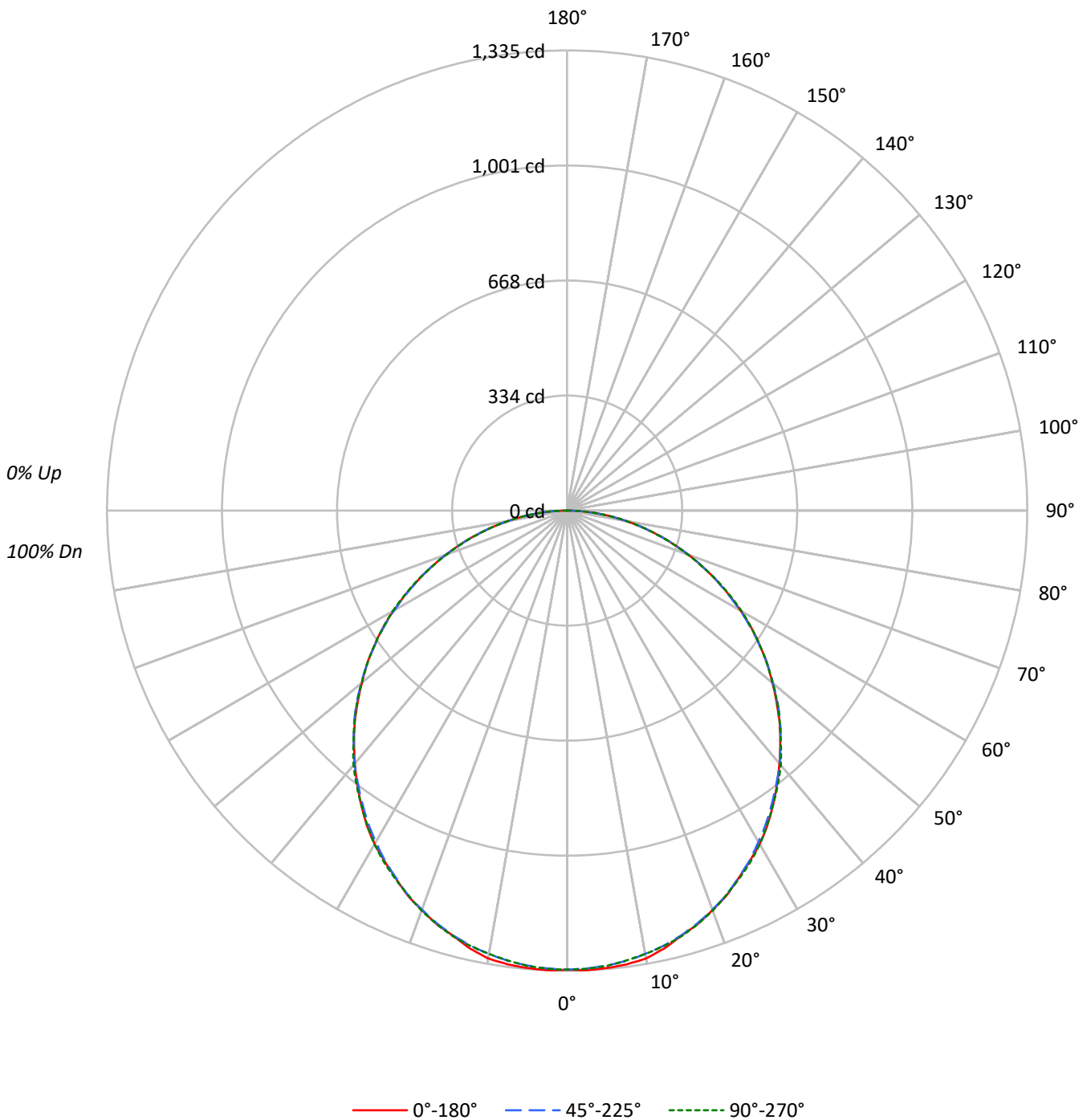
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1792	1792	1792
5°	1799	1789	1791
10°	1803	1784	1784
15°	1779	1778	1782
20°	1766	1764	1768
25°	1747	1745	1751
30°	1736	1725	1737
35°	1711	1702	1711
40°	1683	1684	1694
45°	1659	1664	1661
50°	1627	1633	1629
55°	1602	1598	1602
60°	1565	1560	1574
65°	1517	1522	1528
70°	1467	1474	1464
75°	1416	1416	1416
80°	1337	1337	1351
85°	1235	1249	1207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.3
10°-20°	360.0	9.4
20°-30°	542.6	14.2
30°-40°	649.9	17.1
40°-50°	672.7	17.7
50°-60°	609.9	16.0
60°-70°	472.9	12.4
70°-80°	287.6	7.5
80°-90°	89.5	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°	1028.6	27.0
0°-40°	1678.4	44.0
0°-60°	2961.1	77.7
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1332	1332	1332	1332	1332	
5°	1332	1324	1325	1323	1326	127
15°	1277	1278	1276	1272	1279	361
25°	1176	1176	1176	1179	1179	543
35°	1042	1034	1036	1041	1042	652
45°	872	874	874	871	873	672
55°	683	680	681	684	683	611
65°	476	479	478	476	480	472
75°	272	271	272	271	272	288
85°	80	79	81	80	78	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.0	1332.0	1332.0	1332.0	1332.0
2.5°	1334.7	1329.3	1329.3	1327.5	1330.2
5°	1332.0	1323.9	1324.8	1323.0	1325.7
7.5°	1327.5	1316.7	1317.6	1315.8	1316.7
10°	1319.4	1306.8	1305.9	1305.0	1305.9
12.5°	1301.4	1294.2	1293.3	1291.5	1294.2
15°	1277.2	1278.1	1276.3	1271.8	1279.0
17.5°	1258.3	1257.4	1255.6	1251.1	1258.3
20°	1233.1	1234.0	1232.2	1230.4	1234.9
22.5°	1208.9	1206.2	1207.1	1206.2	1207.1
25°	1176.5	1176.5	1175.6	1179.2	1179.2
27.5°	1146.8	1143.2	1145.0	1148.6	1150.4
30°	1117.2	1108.2	1110.0	1113.6	1118.1
32.5°	1082.1	1073.1	1074.9	1078.5	1080.3
35°	1041.7	1034.5	1036.3	1040.8	1041.7
37.5°	1000.3	995.8	997.6	1001.2	1003.9
40°	958.1	956.3	959.0	958.1	964.4
42.5°	915.0	914.1	916.8	916.8	917.7
45°	871.8	873.6	874.5	870.9	872.7
47.5°	824.2	825.1	828.7	826.9	827.8
50°	777.4	776.5	780.1	781.0	778.3
52.5°	732.5	728.0	731.6	733.4	731.6
55°	683.1	679.5	681.3	684.0	683.1
57.5°	634.5	630.9	631.8	636.3	634.5
60°	581.5	580.6	579.7	583.3	585.1
62.5°	529.4	528.5	526.7	530.3	532.1
65°	476.4	479.0	478.1	476.4	479.9
67.5°	426.0	428.7	426.0	424.2	424.2
70°	373.0	375.7	374.8	373.0	372.1
72.5°	323.6	323.6	321.8	320.9	321.8
75°	272.3	271.4	272.3	271.4	272.3
77.5°	222.0	222.9	222.9	222.9	222.0
80°	172.6	172.6	172.6	173.5	174.4
82.5°	126.7	124.0	126.7	124.9	125.8
85°	80.0	79.1	80.9	80.0	78.2
87.5°	36.0	36.8	36.8	37.7	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)