

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: P294184

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294184
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3454.0 lumens
Efficiency: N/A
Efficacy: 123.8 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

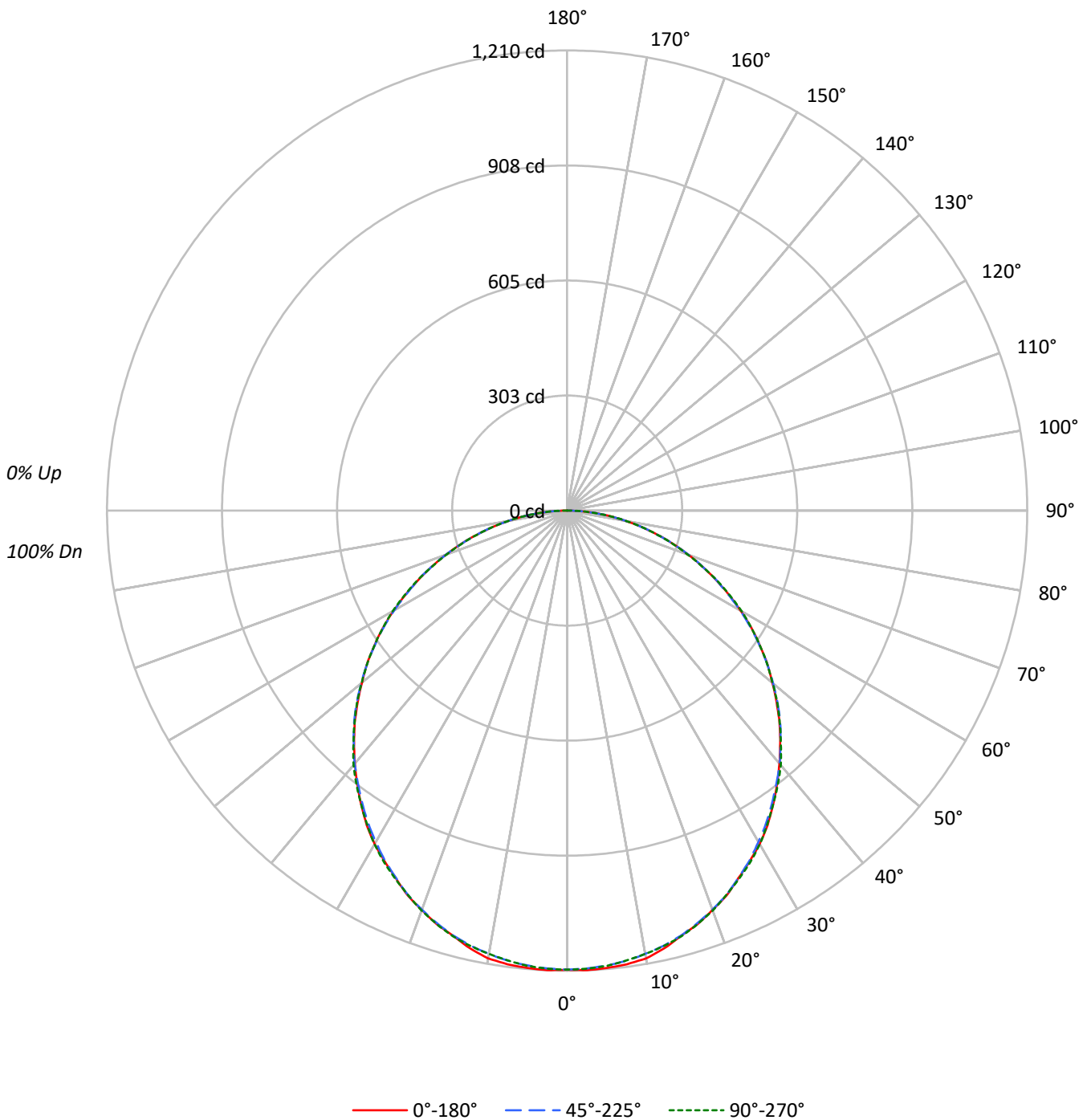
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1624	1624	1624
5°	1630	1622	1623
10°	1634	1617	1617
15°	1612	1611	1615
20°	1600	1599	1603
25°	1583	1582	1587
30°	1573	1563	1574
35°	1551	1543	1551
40°	1525	1527	1535
45°	1503	1508	1505
50°	1475	1480	1477
55°	1452	1449	1452
60°	1418	1414	1427
65°	1374	1380	1385
70°	1330	1336	1327
75°	1283	1283	1283
80°	1212	1212	1224
85°	1119	1132	1095



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.3
10°-20°	326.3	9.4
20°-30°	491.8	14.2
30°-40°	589.0	17.1
40°-50°	609.7	17.7
50°-60°	552.8	16.0
60°-70°	428.6	12.4
70°-80°	260.6	7.5
80°-90°	81.1	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°	932.2	27.0
0°-40°	1521.2	44.0
0°-60°	2683.7	77.7
0°-90°	3454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1207	1200	1201	1199	1202	115
15°	1158	1158	1157	1153	1159	327
25°	1066	1066	1066	1069	1069	492
35°	944	938	939	943	944	591
45°	790	792	793	789	791	609
55°	619	616	618	620	619	553
65°	432	434	433	432	435	428
75°	247	246	247	246	247	261
85°	72	72	73	72	71	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.2	1207.2	1207.2	1207.2	1207.2
2.5°	1209.7	1204.8	1204.8	1203.1	1205.6
5°	1207.2	1199.9	1200.7	1199.1	1201.5
7.5°	1203.1	1193.4	1194.2	1192.6	1193.4
10°	1195.8	1184.4	1183.6	1182.8	1183.6
12.5°	1179.5	1173.0	1172.2	1170.6	1173.0
15°	1157.5	1158.3	1156.7	1152.6	1159.2
17.5°	1140.4	1139.6	1138.0	1133.9	1140.4
20°	1117.6	1118.4	1116.8	1115.2	1119.2
22.5°	1095.6	1093.2	1094.0	1093.2	1094.0
25°	1066.3	1066.3	1065.5	1068.7	1068.7
27.5°	1039.4	1036.2	1037.8	1041.0	1042.7
30°	1012.5	1004.4	1006.0	1009.3	1013.3
32.5°	980.8	972.6	974.2	977.5	979.1
35°	944.1	937.6	939.2	943.3	944.1
37.5°	906.6	902.6	904.2	907.4	909.9
40°	868.3	866.7	869.2	868.3	874.0
42.5°	829.2	828.4	830.9	830.9	831.7
45°	790.1	791.8	792.6	789.3	791.0
47.5°	747.0	747.8	751.0	749.4	750.2
50°	704.6	703.8	707.1	707.9	705.4
52.5°	663.9	659.8	663.1	664.7	663.1
55°	619.1	615.8	617.5	619.9	619.1
57.5°	575.1	571.8	572.7	576.7	575.1
60°	527.0	526.2	525.4	528.7	530.3
62.5°	479.8	479.0	477.3	480.6	482.2
65°	431.7	434.2	433.4	431.7	435.0
67.5°	386.1	388.6	386.1	384.5	384.5
70°	338.1	340.5	339.7	338.1	337.2
72.5°	293.3	293.3	291.6	290.8	291.6
75°	246.8	246.0	246.8	246.0	246.8
77.5°	201.2	202.0	202.0	202.0	201.2
80°	156.4	156.4	156.4	157.2	158.0
82.5°	114.9	112.4	114.9	113.2	114.0
85°	72.5	71.7	73.3	72.5	70.9
87.5°	32.6	33.4	33.4	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)