

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: P291677

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-20-FGW080-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1486.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

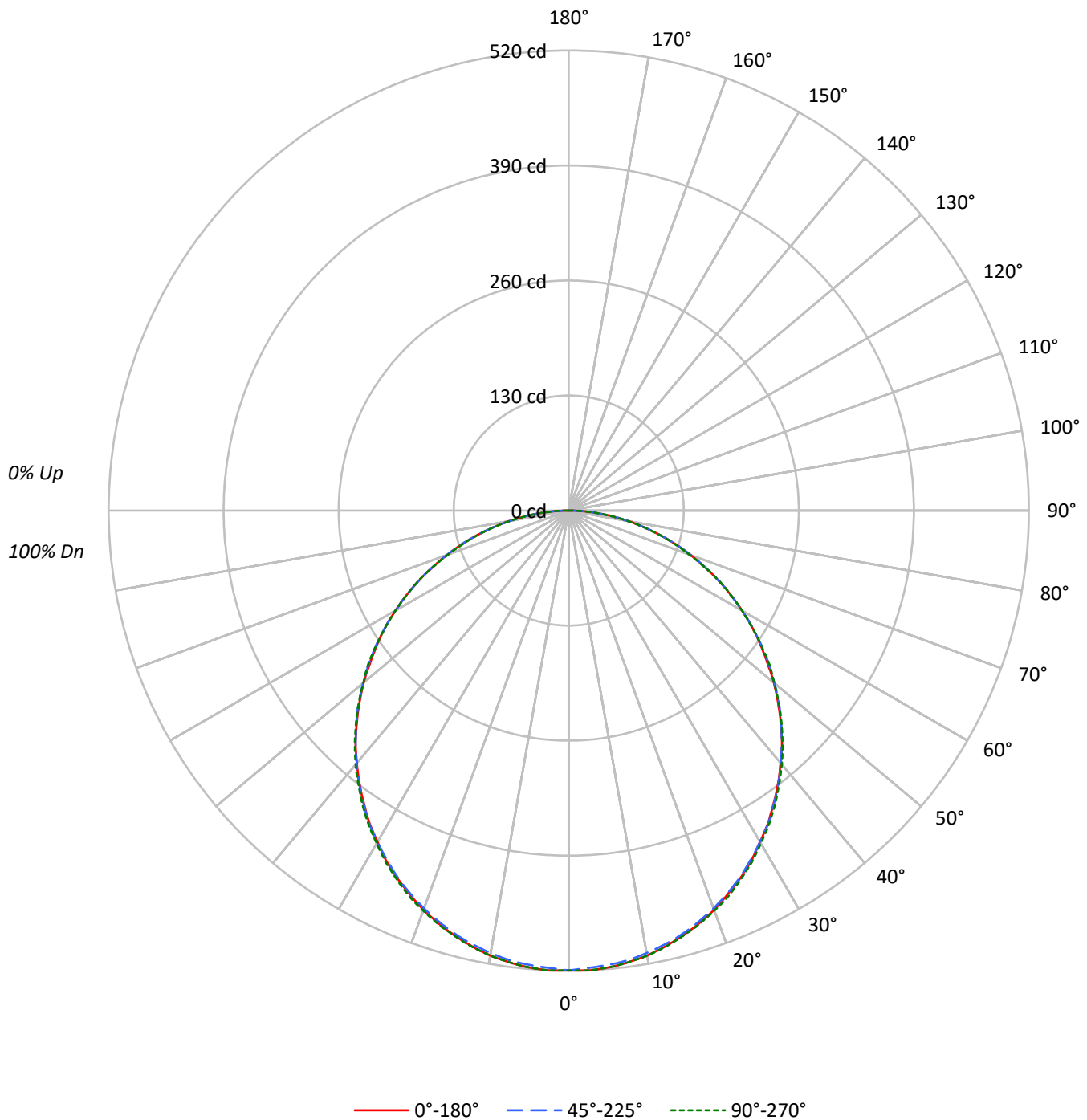
Input Watts (W): 15.996
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	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	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	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°	1399	1399	1399
5°	1400	1392	1400
10°	1395	1388	1395
15°	1386	1380	1387
20°	1375	1370	1378
25°	1361	1358	1365
30°	1343	1343	1349
35°	1327	1328	1334
40°	1308	1310	1317
45°	1289	1292	1294
50°	1267	1271	1269
55°	1241	1248	1246
60°	1217	1217	1217
65°	1189	1189	1195
70°	1151	1151	1140
75°	1111	1106	1101
80°	1060	1052	1046
85°	997	982	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.3
10°-20°	140.3	9.4
20°-30°	211.4	14.2
30°-40°	253.3	17.0
40°-50°	261.9	17.6
50°-60°	237.5	16.0
60°-70°	184.6	12.4
70°-80°	112.7	7.6
80°-90°	35.3	2.4
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°	400.8	27.0
0°-40°	654.1	44.0
0°-60°	1153.4	77.6
0°-90°	1486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	518	518	515	518	518	49
15°	497	497	496	498	498	140
25°	458	458	458	460	460	211
35°	404	404	404	406	406	253
45°	339	339	340	340	340	261
55°	265	266	266	266	266	237
65°	187	187	187	186	188	184
75°	107	107	106	106	106	113
85°	32	31	32	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519.7	519.7	519.7	519.7	519.7
2.5°	520.2	519.7	517.3	519.7	520.2
5°	518.3	517.8	515.4	517.8	518.3
7.5°	514.9	514.9	512.6	514.9	514.9
10°	510.7	510.2	507.8	510.2	510.7
12.5°	504.5	504.5	502.1	504.5	505.0
15°	497.4	497.4	495.5	497.8	497.8
17.5°	489.3	489.8	487.4	490.2	490.2
20°	480.3	479.8	478.4	480.7	481.2
22.5°	469.3	469.8	468.4	471.2	471.7
25°	458.4	458.4	457.5	460.3	459.8
27.5°	446.5	446.5	445.1	447.5	448.0
30°	432.3	432.8	432.3	434.7	434.2
32.5°	419.0	419.5	419.5	420.4	420.9
35°	403.8	404.3	404.3	406.2	406.2
37.5°	388.6	388.6	389.1	390.5	390.5
40°	372.4	372.9	372.9	374.3	374.8
42.5°	356.7	355.8	356.3	357.7	357.7
45°	338.7	339.2	339.6	340.1	340.1
47.5°	320.6	321.6	322.1	322.5	322.1
50°	302.6	303.5	303.5	303.1	303.1
52.5°	283.1	285.5	285.0	285.0	286.0
55°	264.6	265.5	266.0	266.0	265.5
57.5°	246.1	247.0	246.1	246.5	245.6
60°	226.1	226.6	226.1	226.1	226.1
62.5°	206.6	207.1	206.2	206.2	206.2
65°	186.7	186.7	186.7	185.7	187.6
67.5°	165.8	166.7	166.7	167.2	165.3
70°	146.3	146.8	146.3	145.8	144.9
72.5°	126.8	127.3	127.8	125.9	125.4
75°	106.9	106.9	106.4	105.9	105.9
77.5°	87.4	87.4	87.4	86.5	86.5
80°	68.4	68.9	67.9	67.9	67.5
82.5°	49.9	49.9	49.9	49.4	48.5
85°	32.3	31.4	31.8	30.9	30.9
87.5°	14.7	14.7	14.7	13.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)