

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: P292848

Luminaire Tested: **22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1486.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

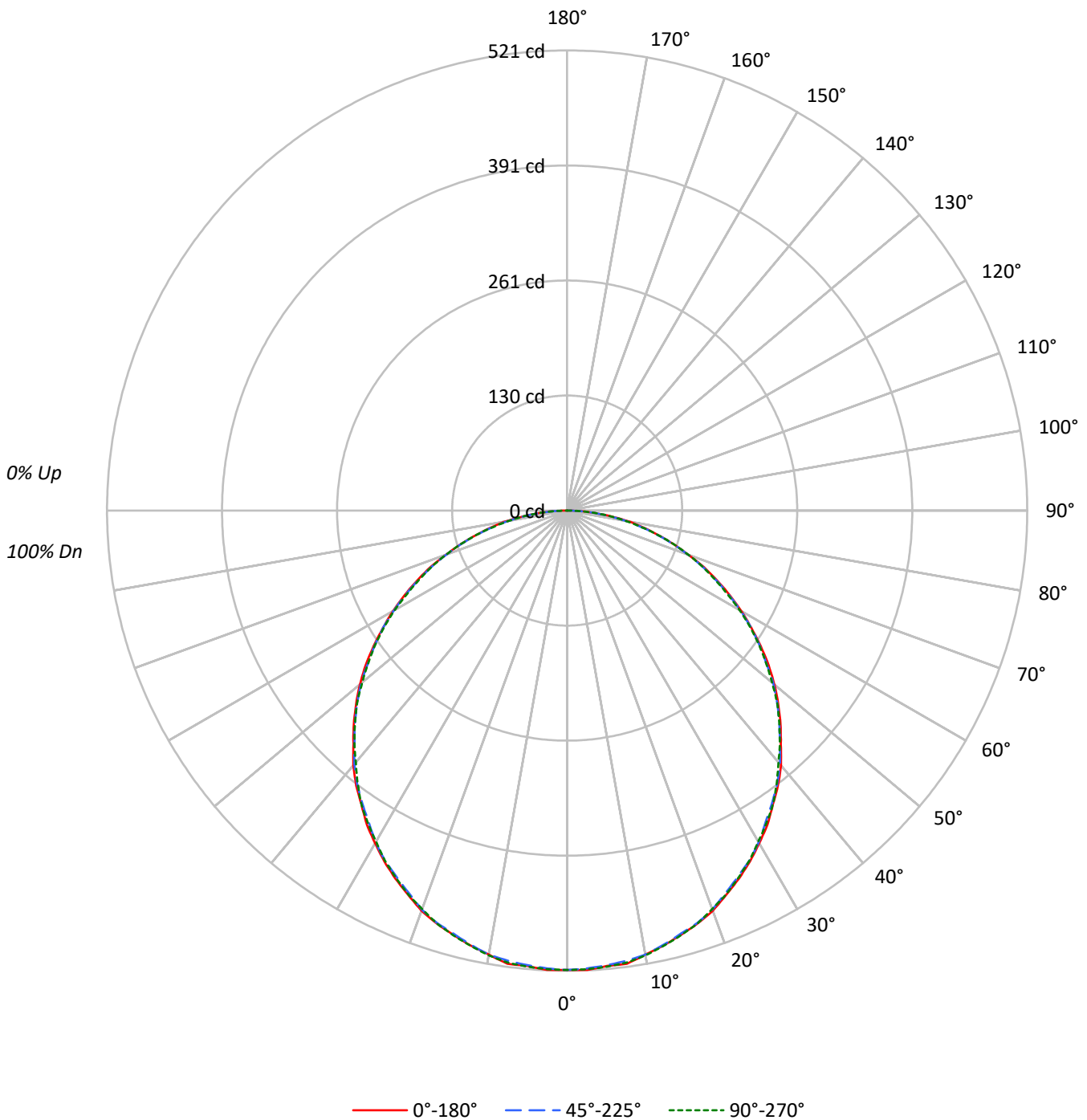
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	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°	1400	1400	1400
5°	1398	1395	1400
10°	1395	1395	1397
15°	1386	1382	1387
20°	1381	1377	1375
25°	1366	1358	1362
30°	1352	1348	1345
35°	1334	1329	1334
40°	1323	1317	1307
45°	1300	1292	1292
50°	1282	1275	1268
55°	1255	1247	1245
60°	1226	1219	1214
65°	1195	1181	1175
70°	1146	1143	1146
75°	1107	1094	1102
80°	1096	1041	1035
85°	969	942	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	3.3
10°-20°	140.4	9.4
20°-30°	211.4	14.2
30°-40°	253.7	17.1
40°-50°	262.5	17.7
50°-60°	237.9	16.0
60°-70°	184.4	12.4
70°-80°	111.9	7.5
80°-90°	34.6	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°	401.0	27.0
0°-40°	654.7	44.1
0°-60°	1155.0	77.7
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	517	518	518	49
15°	497	497	496	498	498	141
25°	460	459	457	459	459	212
35°	406	406	404	405	406	255
45°	342	341	340	340	340	264
55°	268	267	266	265	265	239
65°	188	188	185	186	185	186
75°	106	106	105	105	106	113
85°	31	31	30	30	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	520.1	520.1	520.1	520.1	520.1
2.5°	520.6	518.4	518.8	519.7	519.7
5°	517.5	517.5	516.6	517.9	518.4
7.5°	517.5	515.3	514.0	515.3	516.2
10°	510.5	509.6	510.5	510.1	511.4
12.5°	504.4	503.5	503.5	504.8	504.8
15°	497.4	497.4	496.1	498.3	497.9
17.5°	490.4	490.4	489.6	489.6	490.4
20°	482.2	480.0	480.8	480.4	480.0
22.5°	470.8	469.5	468.6	469.9	470.4
25°	459.9	459.0	457.3	459.0	458.6
27.5°	448.1	447.2	446.8	445.9	446.8
30°	435.0	434.2	433.7	432.8	432.8
32.5°	421.9	420.2	418.0	420.2	419.8
35°	406.2	406.2	404.5	404.9	406.2
37.5°	392.3	391.4	390.5	389.2	389.6
40°	376.6	375.2	374.8	373.9	372.2
42.5°	358.2	358.2	356.5	356.9	356.5
45°	341.7	341.2	339.5	339.5	339.5
47.5°	324.2	323.8	322.5	321.6	322.5
50°	306.3	304.6	304.6	303.3	302.8
52.5°	287.5	286.2	284.5	284.9	284.1
55°	267.5	267.0	265.7	265.3	265.3
57.5°	247.4	247.8	247.0	245.2	245.7
60°	227.8	227.3	226.5	225.6	225.6
62.5°	207.7	207.7	206.0	206.0	204.2
65°	187.6	187.6	185.4	186.3	184.6
67.5°	167.6	167.1	165.8	165.4	165.8
70°	145.7	146.2	145.3	145.3	145.7
72.5°	126.1	125.7	125.2	125.2	126.1
75°	106.5	106.0	105.2	105.2	106.0
77.5°	88.6	86.4	86.0	86.8	85.5
80°	70.7	67.6	67.2	66.8	66.8
82.5°	49.7	48.4	48.9	48.4	49.3
85°	31.4	31.0	30.5	30.5	31.0
87.5°	14.8	14.0	14.0	13.5	13.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)