

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: P291537

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291537
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1490.0 lumens
Efficiency: N/A
Efficacy: 95.9 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

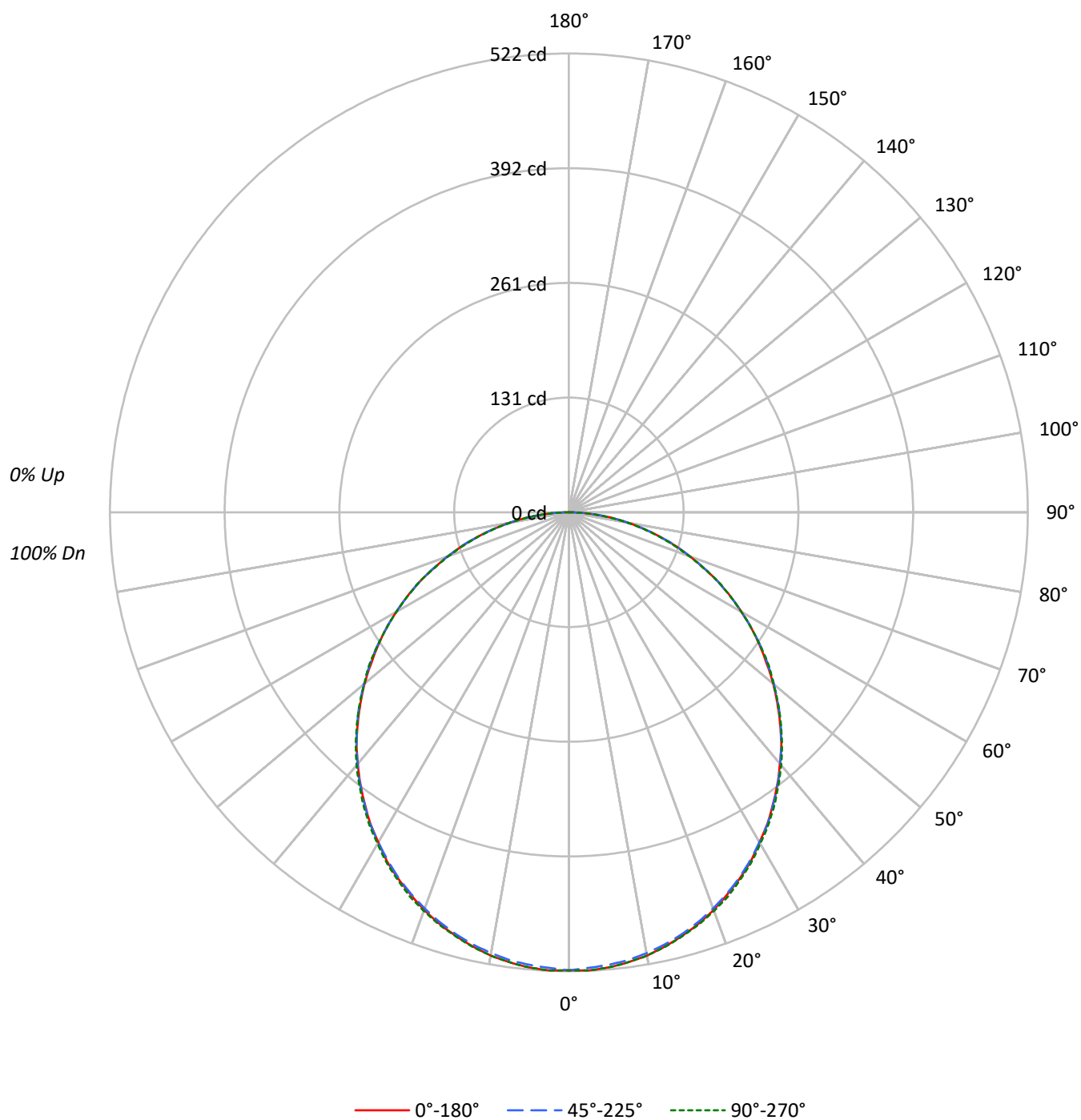
Input Watts (W): 15.531
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1402	1402	1402
5°	1404	1396	1404
10°	1399	1391	1399
15°	1389	1384	1391
20°	1379	1373	1382
25°	1365	1362	1369
30°	1347	1347	1353
35°	1330	1331	1338
40°	1312	1313	1320
45°	1292	1296	1298
50°	1270	1274	1272
55°	1245	1251	1249
60°	1220	1220	1220
65°	1192	1192	1198
70°	1154	1154	1143
75°	1115	1109	1104
80°	1063	1055	1048
85°	1000	985	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	3.3
10°-20°	140.6	9.4
20°-30°	211.9	14.2
30°-40°	254.0	17.0
40°-50°	262.6	17.6
50°-60°	238.1	16.0
60°-70°	185.1	12.4
70°-80°	113.0	7.6
80°-90°	35.4	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°	401.8	27.0
0°-40°	655.8	44.0
0°-60°	1156.5	77.6
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	520	519	517	519	520	49
15°	499	499	497	499	499	141
25°	460	460	459	462	461	212
35°	405	405	405	407	407	253
45°	340	340	341	341	341	262
55°	265	266	267	267	266	237
65°	187	187	187	186	188	185
75°	107	107	107	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°	521.1	521.1	521.1	521.1	521.1
2.5°	521.6	521.1	518.7	521.1	521.6
5°	519.7	519.2	516.8	519.2	519.7
7.5°	516.3	516.3	513.9	516.3	516.3
10°	512.0	511.6	509.2	511.6	512.0
12.5°	505.8	505.8	503.5	505.8	506.3
15°	498.7	498.7	496.8	499.2	499.2
17.5°	490.6	491.1	488.7	491.6	491.6
20°	481.5	481.1	479.6	482.0	482.5
22.5°	470.6	471.1	469.6	472.5	473.0
25°	459.6	459.6	458.7	461.5	461.1
27.5°	447.7	447.7	446.3	448.7	449.2
30°	433.4	433.9	433.4	435.8	435.3
32.5°	420.1	420.6	420.6	421.5	422.0
35°	404.9	405.3	405.3	407.2	407.2
37.5°	389.6	389.6	390.1	391.5	391.5
40°	373.4	373.9	373.9	375.3	375.8
42.5°	357.7	356.8	357.2	358.7	358.7
45°	339.6	340.1	340.6	341.0	341.0
47.5°	321.5	322.5	322.9	323.4	322.9
50°	303.4	304.4	304.4	303.9	303.9
52.5°	283.9	286.3	285.8	285.8	286.7
55°	265.3	266.3	266.7	266.7	266.3
57.5°	246.7	247.7	246.7	247.2	246.3
60°	226.7	227.2	226.7	226.7	226.7
62.5°	207.2	207.7	206.7	206.7	206.7
65°	187.2	187.2	187.2	186.2	188.1
67.5°	166.2	167.2	167.2	167.7	165.8
70°	146.7	147.2	146.7	146.2	145.3
72.5°	127.2	127.7	128.1	126.2	125.7
75°	107.2	107.2	106.7	106.2	106.2
77.5°	87.6	87.6	87.6	86.7	86.7
80°	68.6	69.1	68.1	68.1	67.6
82.5°	50.0	50.0	50.0	49.5	48.6
85°	32.4	31.4	31.9	31.0	31.0
87.5°	14.8	14.8	14.8	13.8	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)