

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: P291636

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291636
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-L93050-W2A1-U-3500K
Description: GRLED 1x4 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: 1340.0 lumens
Efficiency: N/A
Efficacy: 84.8 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

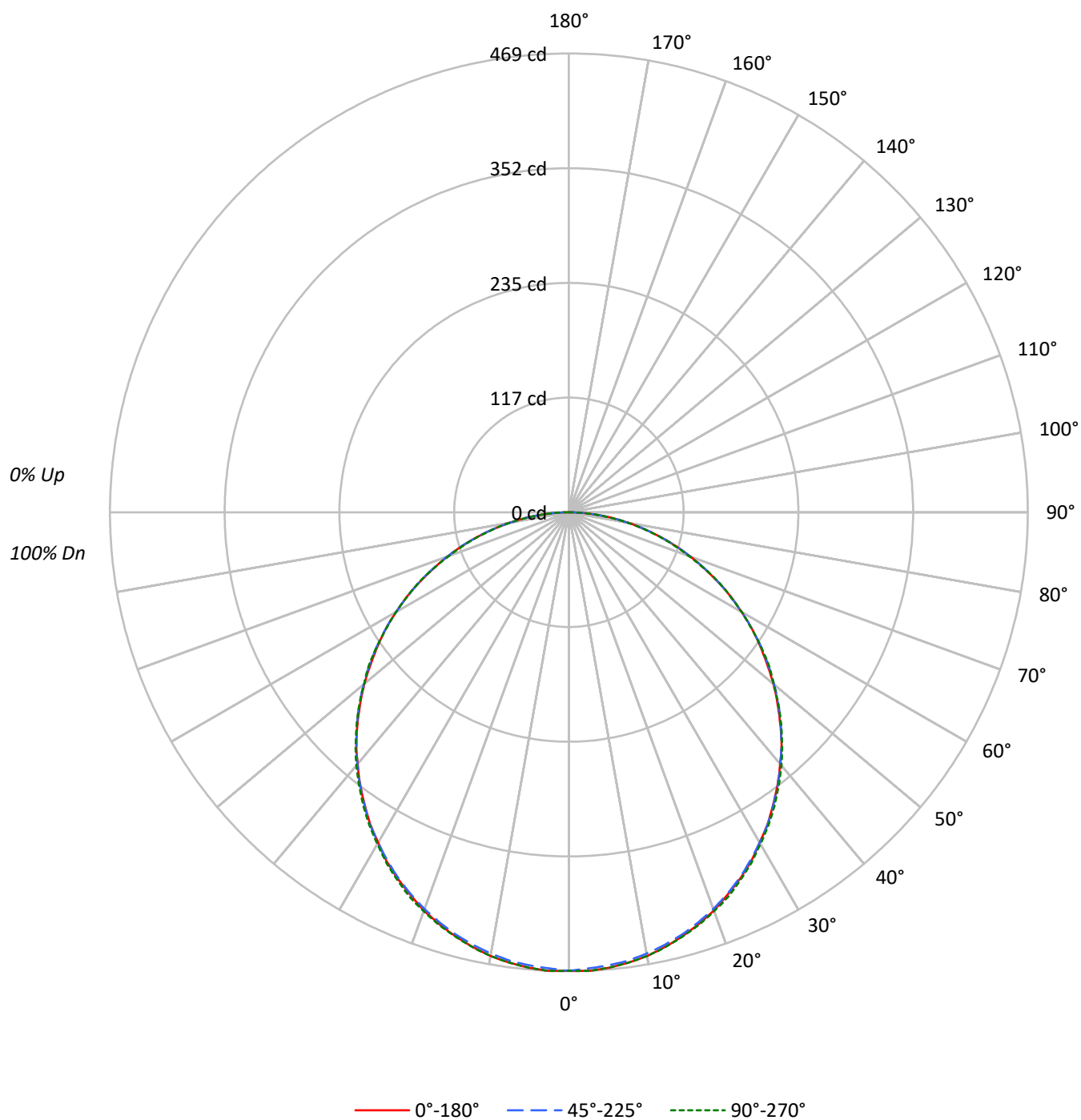
Input Watts (W): 15.81
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1261	1261	1261
5°	1262	1256	1262
10°	1258	1251	1258
15°	1249	1245	1251
20°	1240	1235	1243
25°	1227	1225	1231
30°	1211	1211	1216
35°	1196	1197	1203
40°	1180	1181	1187
45°	1162	1166	1167
50°	1142	1146	1144
55°	1119	1126	1124
60°	1097	1097	1097
65°	1072	1072	1077
70°	1038	1038	1028
75°	1002	998	993
80°	956	950	942
85°	898	886	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.3	3.3
10°-20°	126.5	9.4
20°-30°	190.6	14.2
30°-40°	228.4	17.0
40°-50°	236.2	17.6
50°-60°	214.2	16.0
60°-70°	166.4	12.4
70°-80°	101.7	7.6
80°-90°	31.8	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°	361.4	27.0
0°-40°	589.8	44.0
0°-60°	1040.1	77.6
0°-90°	1340.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1340.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	469	469	469	469	469	
5°	467	467	465	467	467	44
15°	448	448	447	449	449	127
25°	413	413	412	415	415	190
35°	364	364	364	366	366	228
45°	305	306	306	307	307	236
55°	239	240	240	240	240	213
65°	168	168	168	168	169	166
75°	96	96	96	96	96	102
85°	29	28	29	28	28	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	468.6	468.6	468.6	468.6	468.6
2.5°	469.1	468.6	466.5	468.6	469.1
5°	467.3	466.9	464.8	466.9	467.3
7.5°	464.3	464.3	462.2	464.3	464.3
10°	460.5	460.1	457.9	460.1	460.5
12.5°	454.9	454.9	452.8	454.9	455.3
15°	448.5	448.5	446.8	448.9	448.9
17.5°	441.2	441.6	439.5	442.1	442.1
20°	433.1	432.6	431.4	433.5	433.9
22.5°	423.2	423.6	422.4	424.9	425.4
25°	413.4	413.4	412.5	415.1	414.7
27.5°	402.7	402.7	401.4	403.5	403.9
30°	389.8	390.2	389.8	391.9	391.5
32.5°	377.8	378.2	378.2	379.1	379.5
35°	364.1	364.5	364.5	366.2	366.2
37.5°	350.4	350.4	350.8	352.1	352.1
40°	335.8	336.3	336.3	337.5	338.0
42.5°	321.7	320.8	321.3	322.6	322.6
45°	305.4	305.8	306.3	306.7	306.7
47.5°	289.1	290.0	290.4	290.9	290.4
50°	272.9	273.7	273.7	273.3	273.3
52.5°	255.3	257.4	257.0	257.0	257.9
55°	238.6	239.5	239.9	239.9	239.5
57.5°	221.9	222.7	221.9	222.3	221.5
60°	203.9	204.3	203.9	203.9	203.9
62.5°	186.3	186.8	185.9	185.9	185.9
65°	168.3	168.3	168.3	167.5	169.2
67.5°	149.5	150.4	150.4	150.8	149.1
70°	131.9	132.4	131.9	131.5	130.6
72.5°	114.4	114.8	115.2	113.5	113.1
75°	96.4	96.4	96.0	95.5	95.5
77.5°	78.8	78.8	78.8	78.0	78.0
80°	61.7	62.1	61.3	61.3	60.8
82.5°	45.0	45.0	45.0	44.5	43.7
85°	29.1	28.3	28.7	27.8	27.8
87.5°	13.3	13.3	13.3	12.4	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)