

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: P291573

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291573
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-L82765-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: 1488.0 lumens
Efficiency: N/A
Efficacy: 96.4 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

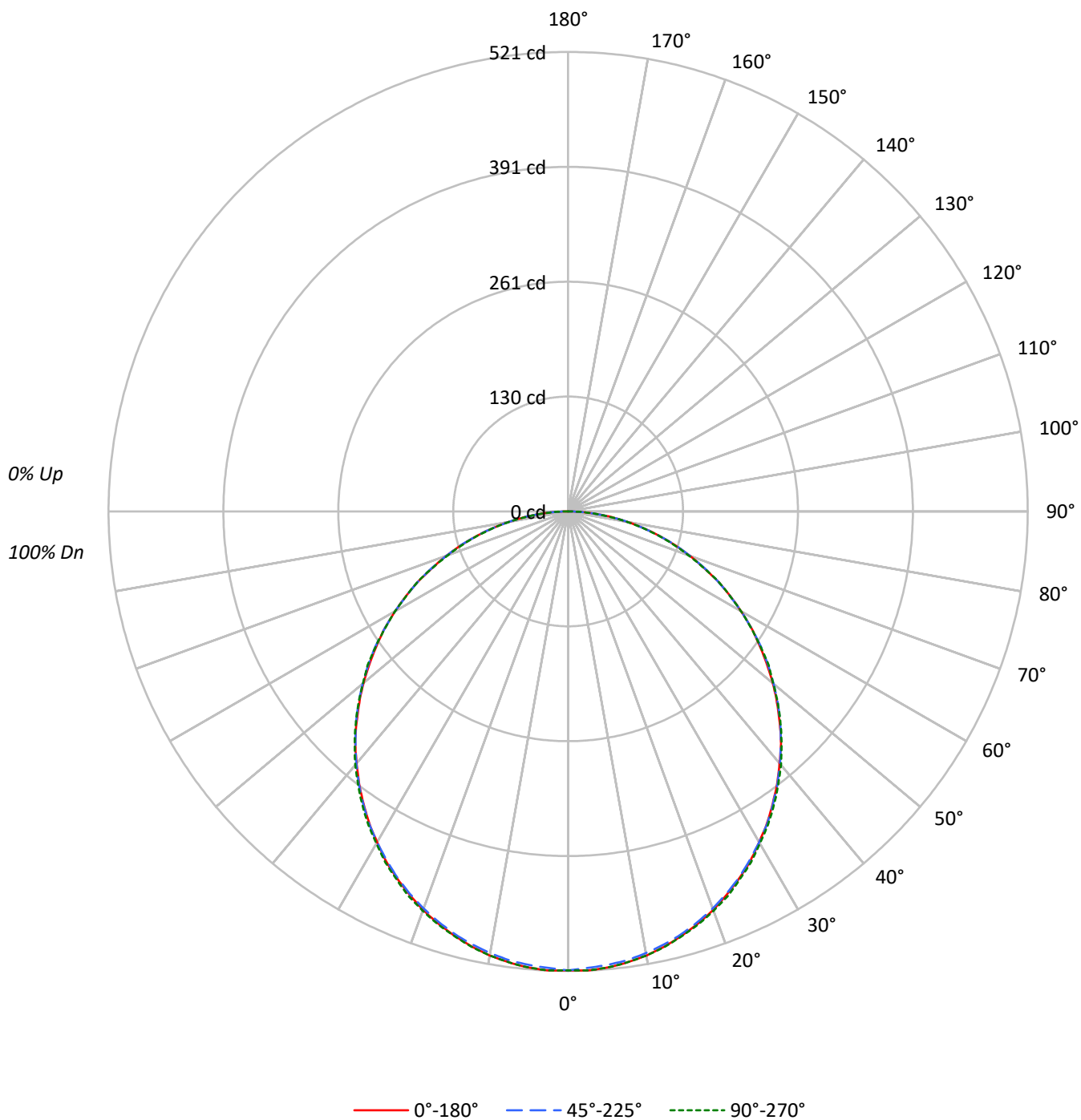
Input Watts (W): 15.438
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1400	1400	1400
5°	1402	1394	1402
10°	1397	1389	1397
15°	1387	1382	1389
20°	1377	1372	1380
25°	1363	1360	1367
30°	1345	1345	1351
35°	1328	1330	1336
40°	1310	1312	1318
45°	1291	1294	1296
50°	1268	1273	1271
55°	1243	1250	1247
60°	1218	1218	1218
65°	1190	1190	1196
70°	1153	1153	1142
75°	1112	1108	1103
80°	1062	1054	1046
85°	997	985	954



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	3.3
10°-20°	140.4	9.4
20°-30°	211.6	14.2
30°-40°	253.6	17.0
40°-50°	262.3	17.6
50°-60°	237.8	16.0
60°-70°	184.8	12.4
70°-80°	112.9	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°	401.3	27.0
0°-40°	654.9	44.0
0°-60°	1155.0	77.6
0°-90°	1488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	520	520	520	520	520	
5°	519	518	516	518	519	49
15°	498	498	496	498	498	141
25°	459	459	458	461	460	211
35°	404	405	405	407	407	253
45°	339	340	340	341	341	262
55°	265	266	266	266	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°	520.4	520.4	520.4	520.4	520.4
2.5°	520.9	520.4	518.0	520.4	520.9
5°	519.0	518.5	516.1	518.5	519.0
7.5°	515.6	515.6	513.2	515.6	515.6
10°	511.3	510.9	508.5	510.9	511.3
12.5°	505.2	505.2	502.8	505.2	505.6
15°	498.0	498.0	496.1	498.5	498.5
17.5°	489.9	490.4	488.0	490.9	490.9
20°	480.9	480.4	479.0	481.4	481.9
22.5°	470.0	470.4	469.0	471.9	472.3
25°	459.0	459.0	458.1	460.9	460.4
27.5°	447.1	447.1	445.7	448.1	448.6
30°	432.9	433.3	432.9	435.2	434.8
32.5°	419.5	420.0	420.0	421.0	421.4
35°	404.3	404.8	404.8	406.7	406.7
37.5°	389.1	389.1	389.6	391.0	391.0
40°	372.9	373.4	373.4	374.8	375.3
42.5°	357.2	356.3	356.8	358.2	358.2
45°	339.2	339.6	340.1	340.6	340.6
47.5°	321.1	322.0	322.5	323.0	322.5
50°	303.0	304.0	304.0	303.5	303.5
52.5°	283.5	285.9	285.4	285.4	286.4
55°	264.9	265.9	266.4	266.4	265.9
57.5°	246.4	247.3	246.4	246.9	245.9
60°	226.4	226.9	226.4	226.4	226.4
62.5°	206.9	207.4	206.4	206.4	206.4
65°	186.9	186.9	186.9	186.0	187.9
67.5°	166.0	167.0	167.0	167.4	165.5
70°	146.5	147.0	146.5	146.0	145.1
72.5°	127.0	127.5	128.0	126.1	125.6
75°	107.0	107.0	106.6	106.1	106.1
77.5°	87.5	87.5	87.5	86.6	86.6
80°	68.5	69.0	68.0	68.0	67.5
82.5°	49.9	49.9	49.9	49.5	48.5
85°	32.3	31.4	31.9	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)