Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P291655

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Report Generated By E9911574 / USPTCWHP6081592

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P291655
	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-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K
Description:	GRLED 1x4 TUNABLE WHITE TROFFER WITH FGW080 LENS
Light Source:	(168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2175.0 lumens
Efficiency:	N/A
Efficacy:	72.6 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

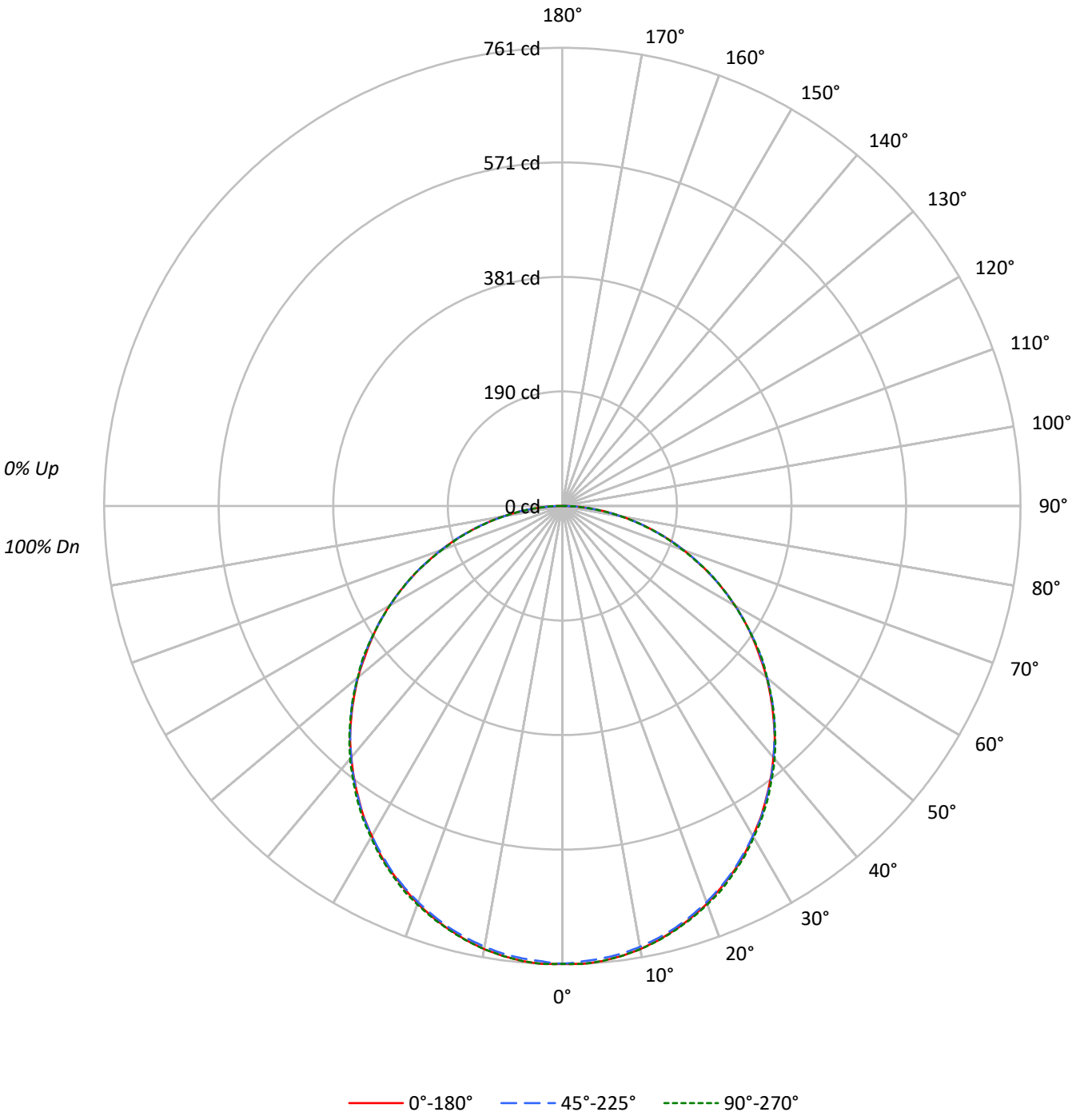
Input Watts (W):	29.946
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P291655
CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P291655
CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	2047	2047	2047
5°	2049	2038	2049
10°	2042	2031	2042
15°	2028	2020	2030
20°	2013	2005	2017
25°	1992	1988	1998
30°	1966	1966	1975
35°	1941	1944	1953
40°	1915	1917	1927
45°	1886	1892	1894
50°	1854	1860	1857
55°	1817	1827	1824
60°	1781	1781	1781
65°	1740	1740	1748
70°	1685	1685	1669
75°	1626	1619	1612
80°	1551	1540	1530
85°	1460	1439	1396

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P291655
CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	3.3
10°-20°	205.3	9.4
20°-30°	309.4	14.2
30°-40°	370.7	17.0
40°-50°	383.3	17.6
50°-60°	347.6	16.0
60°-70°	270.1	12.4
70°-80°	165.0	7.6
80°-90°	51.6	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°	586.6	27.0
0°-40°	957.3	44.0
0°-60°	1688.2	77.6
0°-90°	2175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	761	761	761	761	761	
5°	759	758	754	758	759	72
15°	728	728	725	729	729	205
25°	671	671	670	674	673	309
35°	591	592	592	594	594	370
45°	496	496	497	498	498	382
55°	387	389	389	389	389	346
65°	273	273	273	272	275	270
75°	156	156	156	155	155	165
85°	47	46	47	45	45	52
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P291655
CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*760.6*	760.6	760.6	760.6	760.6
2.5°	*761.3*	*760.6*	*757.2*	*760.6*	*761.3*
5°	*758.6*	757.9	754.4	757.9	758.6
7.5°	*753.7*	753.7	750.2	753.7	753.7
10°	*747.4*	746.7	743.3	746.7	747.4
12.5°	*738.4*	738.4	734.9	738.4	739.1
15°	*728.0*	728.0	725.2	728.7	728.7
17.5°	*716.1*	716.8	713.4	717.5	717.5
20°	*702.9*	702.2	700.2	703.6	704.3
22.5°	*686.9*	687.6	685.6	689.7	690.4
25°	*670.9*	670.9	669.6	673.7	673.0
27.5°	*653.6*	653.6	651.5	655.0	655.7
30°	*632.7*	633.4	632.7	636.2	635.5
32.5°	*613.2*	613.9	613.9	615.3	616.0
35°	*591.0*	591.7	591.7	594.5	594.5
37.5°	*568.7*	568.7	569.4	571.5	571.5
40°	*545.1*	545.8	545.8	547.9	548.6
42.5°	*522.2*	520.8	521.5	523.5	523.5
45°	*495.7*	496.4	497.1	497.8	497.8
47.5°	*469.3*	470.7	471.4	472.1	471.4
50°	*442.9*	444.3	444.3	443.6	443.6
52.5°	*414.4*	417.9	417.2	417.2	418.6
55°	*387.3*	388.7	389.4	389.4	388.7
57.5°	*360.2*	361.5	360.2	360.9	359.5
60°	*331.0*	331.7	331.0	331.0	331.0
62.5°	*302.4*	303.1	301.8	301.8	301.8
65°	*273.2*	273.2	273.2	271.9	274.6
67.5°	*242.7*	244.0	244.0	244.7	242.0
70°	*214.1*	214.8	214.1	213.5	212.1
72.5°	*185.6*	186.3	187.0	184.3	183.6
75°	*156.4*	156.4	155.7	155.0	155.0
77.5°	*127.9*	127.9	127.9	126.5	126.5
80°	*100.1*	100.8	99.4	99.4	98.7
82.5°	*73.0*	73.0	73.0	72.3	70.9
85°	*47.3*	45.9	46.6	45.2	45.2
87.5°	*21.6*	21.6	21.6	20.2	22.9
90°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)