

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: P291635

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291635
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-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: 1226.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

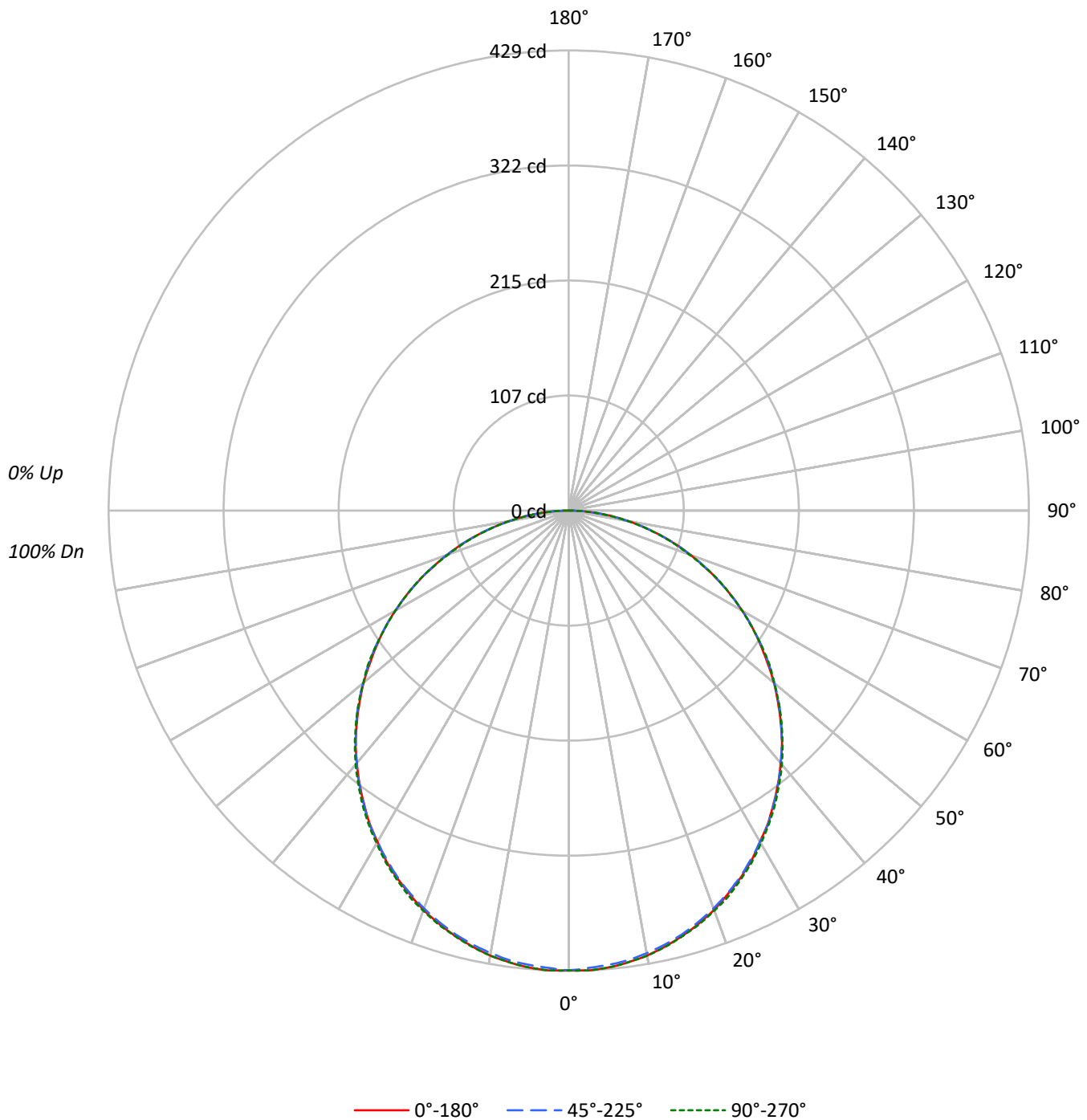
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291635

CATALOG NUMBER: 14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291635

CATALOG NUMBER: 14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3000K

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°	1154	1154	1154
5°	1155	1149	1155
10°	1151	1145	1151
15°	1143	1139	1144
20°	1135	1130	1137
25°	1123	1121	1127
30°	1108	1108	1113
35°	1094	1096	1101
40°	1079	1081	1086
45°	1063	1066	1068
50°	1045	1048	1047
55°	1024	1030	1028
60°	1004	1004	1004
65°	981	981	986
70°	950	950	940
75°	917	913	909
80°	874	868	863
85°	824	812	787



TEST NUMBER: P291635

CATALOG NUMBER: 14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.5	3.3
10°-20°	115.7	9.4
20°-30°	174.4	14.2
30°-40°	209.0	17.0
40°-50°	216.1	17.6
50°-60°	195.9	16.0
60°-70°	152.3	12.4
70°-80°	93.0	7.6
80°-90°	29.1	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°	330.6	27.0
0°-40°	539.6	44.0
0°-60°	951.6	77.6
0°-90°	1226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	429	429	429	429	429	
5°	428	427	425	427	428	41
15°	410	410	409	411	411	116
25°	378	378	377	380	379	174
35°	333	334	334	335	335	208
45°	279	280	280	281	281	216
55°	218	219	220	220	219	195
65°	154	154	154	153	155	152
75°	88	88	88	87	87	93
85°	27	26	26	26	26	29
90°	0	0	0	0	0	



TEST NUMBER: P291635

CATALOG NUMBER: 14GR-LD5-20-FGW080-UNV-L93050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	428.8	428.8	428.8	428.8	428.8
2.5°	429.1	428.8	426.8	428.8	429.1
5°	427.6	427.2	425.2	427.2	427.6
7.5°	424.8	424.8	422.9	424.8	424.8
10°	421.3	420.9	419.0	420.9	421.3
12.5°	416.2	416.2	414.3	416.2	416.6
15°	410.3	410.3	408.8	410.7	410.7
17.5°	403.7	404.1	402.1	404.5	404.5
20°	396.2	395.8	394.7	396.6	397.0
22.5°	387.2	387.6	386.4	388.8	389.2
25°	378.2	378.2	377.4	379.8	379.4
27.5°	368.4	368.4	367.2	369.2	369.6
30°	356.6	357.0	356.6	358.6	358.2
32.5°	345.7	346.1	346.1	346.8	347.2
35°	333.1	333.5	333.5	335.1	335.1
37.5°	320.6	320.6	321.0	322.2	322.2
40°	307.3	307.7	307.7	308.8	309.2
42.5°	294.3	293.5	293.9	295.1	295.1
45°	279.4	279.8	280.2	280.6	280.6
47.5°	264.5	265.3	265.7	266.1	265.7
50°	249.7	250.4	250.4	250.0	250.0
52.5°	233.6	235.5	235.1	235.1	235.9
55°	218.3	219.1	219.5	219.5	219.1
57.5°	203.0	203.8	203.0	203.4	202.6
60°	186.6	186.9	186.6	186.6	186.6
62.5°	170.5	170.9	170.1	170.1	170.1
65°	154.0	154.0	154.0	153.2	154.8
67.5°	136.8	137.6	137.6	138.0	136.4
70°	120.7	121.1	120.7	120.3	119.5
72.5°	104.6	105.0	105.4	103.9	103.5
75°	88.2	88.2	87.8	87.4	87.4
77.5°	72.1	72.1	72.1	71.3	71.3
80°	56.4	56.8	56.0	56.0	55.7
82.5°	41.2	41.2	41.2	40.8	40.0
85°	26.7	25.9	26.3	25.5	25.5
87.5°	12.1	12.1	12.1	11.4	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)