

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: P291702

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291702
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-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2312.0 lumens
Efficiency: N/A
Efficacy: 88.2 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

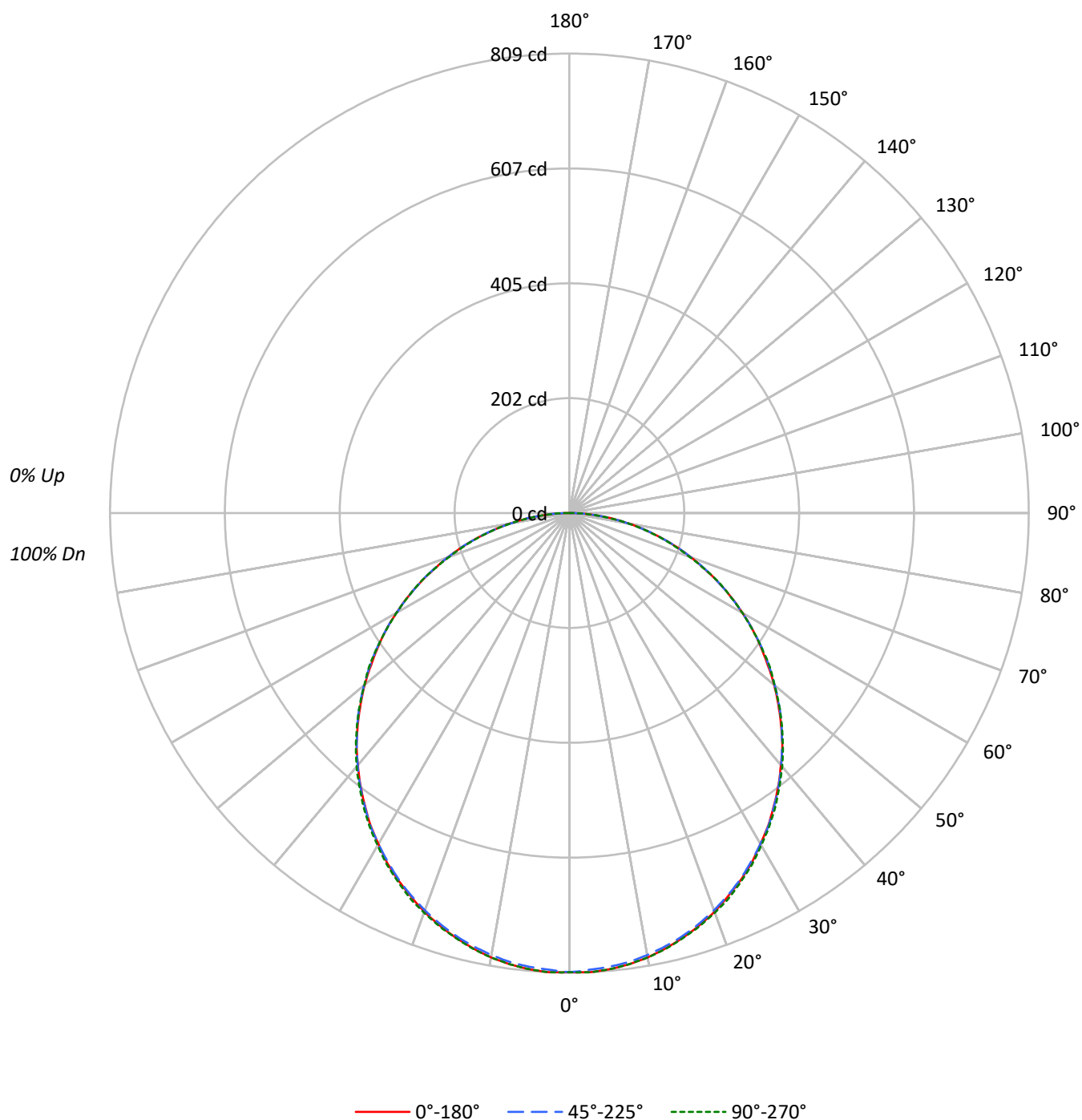
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291702

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291702

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2176	2176	2176
5°	2178	2166	2178
10°	2171	2159	2171
15°	2156	2148	2158
20°	2140	2131	2144
25°	2118	2113	2124
30°	2090	2090	2099
35°	2064	2066	2076
40°	2035	2038	2048
45°	2006	2011	2014
50°	1971	1977	1974
55°	1932	1942	1938
60°	1893	1893	1893
65°	1850	1850	1859
70°	1791	1791	1773
75°	1729	1722	1713
80°	1649	1638	1626
85°	1553	1528	1482



TEST NUMBER: P291702

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.3
10°-20°	218.2	9.4
20°-30°	328.8	14.2
30°-40°	394.1	17.0
40°-50°	407.5	17.6
50°-60°	369.5	16.0
60°-70°	287.2	12.4
70°-80°	175.4	7.6
80°-90°	54.9	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°	623.5	27.0
0°-40°	1017.6	44.0
0°-60°	1794.6	77.6
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	806	806	802	806	806	77
15°	774	774	771	775	775	218
25°	713	713	712	716	715	329
35°	628	629	629	632	632	393
45°	527	528	528	529	529	407
55°	412	413	414	414	413	368
65°	290	290	290	289	292	287
75°	166	166	166	165	165	176
85°	50	49	50	48	48	56
90°	0	0	0	0	0	



TEST NUMBER: P291702

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.6	808.6	808.6	808.6	808.6
2.5°	809.3	808.6	804.9	808.6	809.3
5°	806.3	805.6	801.9	805.6	806.3
7.5°	801.2	801.2	797.5	801.2	801.2
10°	794.5	793.8	790.1	793.8	794.5
12.5°	784.9	784.9	781.2	784.9	785.6
15°	773.8	773.8	770.9	774.6	774.6
17.5°	761.3	762.0	758.3	762.7	762.7
20°	747.2	746.5	744.3	747.9	748.7
22.5°	730.2	730.9	728.7	733.2	733.9
25°	713.2	713.2	711.7	716.2	715.4
27.5°	694.7	694.7	692.5	696.2	697.0
30°	672.6	673.3	672.6	676.3	675.5
32.5°	651.9	652.6	652.6	654.1	654.8
35°	628.2	629.0	629.0	631.9	631.9
37.5°	604.6	604.6	605.3	607.5	607.5
40°	579.4	580.2	580.2	582.4	583.1
42.5°	555.0	553.6	554.3	556.5	556.5
45°	527.0	527.7	528.4	529.2	529.2
47.5°	498.9	500.4	501.1	501.8	501.1
50°	470.8	472.3	472.3	471.5	471.5
52.5°	440.5	444.2	443.4	443.4	444.9
55°	411.7	413.1	413.9	413.9	413.1
57.5°	382.8	384.3	382.8	383.6	382.1
60°	351.8	352.5	351.8	351.8	351.8
62.5°	321.5	322.2	320.8	320.8	320.8
65°	290.5	290.5	290.5	289.0	291.9
67.5°	257.9	259.4	259.4	260.2	257.2
70°	227.6	228.4	227.6	226.9	225.4
72.5°	197.3	198.1	198.8	195.9	195.1
75°	166.3	166.3	165.6	164.8	164.8
77.5°	136.0	136.0	136.0	134.5	134.5
80°	106.4	107.2	105.7	105.7	104.9
82.5°	77.6	77.6	77.6	76.9	75.4
85°	50.3	48.8	49.5	48.0	48.0
87.5°	22.9	22.9	22.9	21.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)