

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: P292767

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-28-FGW080-UNV-L82765-W2A1-U-3000K
Description: GRLED 2x2 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: 2301.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

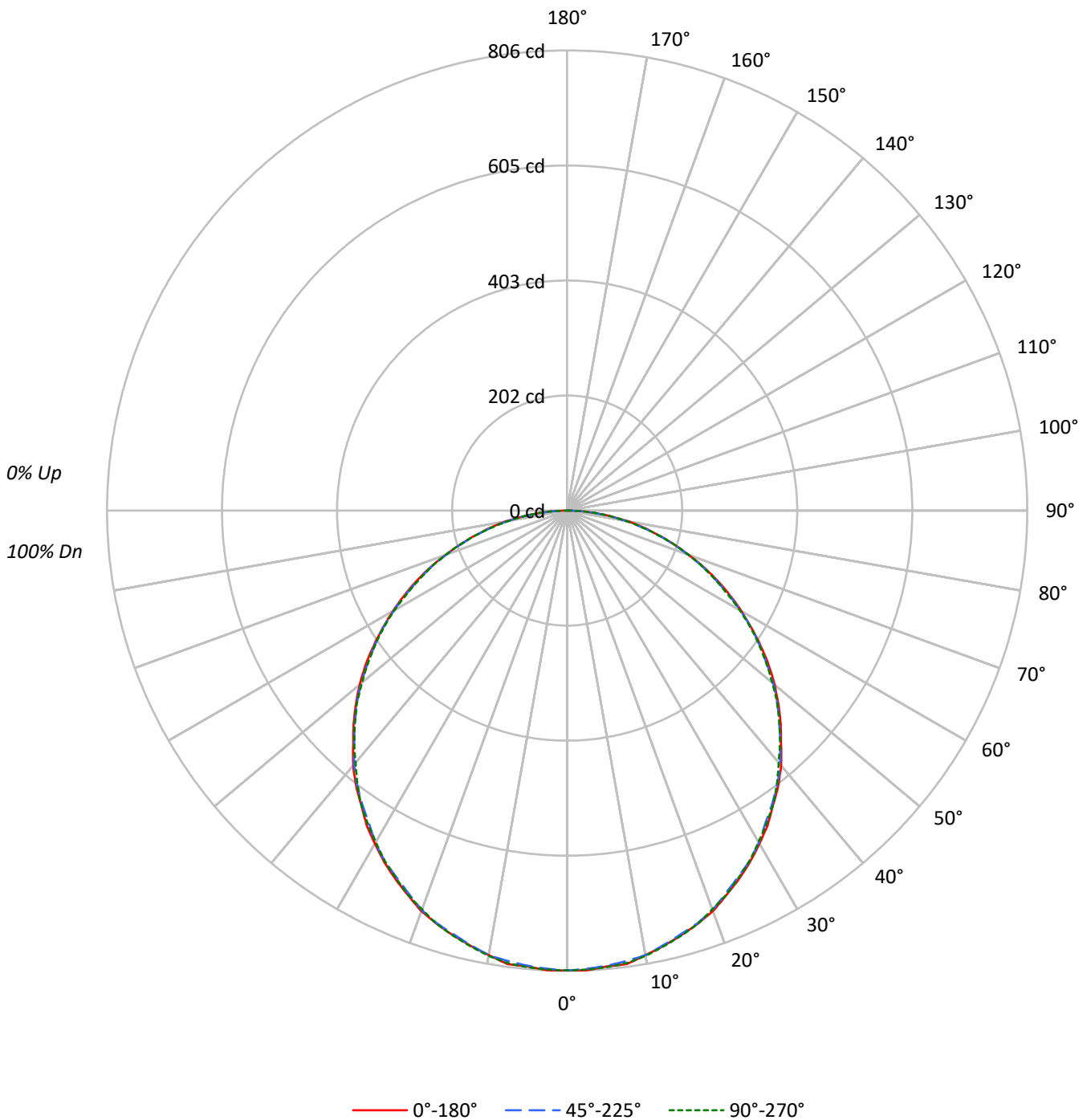
Input Watts (W): 21.855
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	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	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	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°	2167	2167	2167
5°	2165	2161	2168
10°	2160	2160	2164
15°	2146	2140	2148
20°	2138	2132	2128
25°	2114	2102	2108
30°	2093	2087	2082
35°	2066	2057	2066
40°	2048	2039	2024
45°	2013	2001	2001
50°	1986	1974	1963
55°	1943	1931	1927
60°	1898	1887	1880
65°	1850	1829	1820
70°	1776	1770	1776
75°	1714	1693	1707
80°	1697	1612	1602
85°	1501	1460	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.3
10°-20°	217.4	9.4
20°-30°	327.3	14.2
30°-40°	392.8	17.1
40°-50°	406.5	17.7
50°-60°	368.3	16.0
60°-70°	285.5	12.4
70°-80°	173.3	7.5
80°-90°	53.6	2.3
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°	620.9	27.0
0°-40°	1013.7	44.1
0°-60°	1788.5	77.7
0°-90°	2301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	801	801	800	802	803	76
15°	770	770	768	772	771	218
25°	712	711	708	711	710	328
35°	629	629	626	627	629	394
45°	529	528	526	526	526	408
55°	414	414	412	411	411	370
65°	290	290	287	288	286	287
75°	165	164	163	163	164	175
85°	49	48	47	47	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.4	805.4	805.4	805.4	805.4
2.5°	806.0	802.7	803.3	804.7	804.7
5°	801.3	801.3	800.0	802.0	802.7
7.5°	801.3	797.9	795.9	797.9	799.3
10°	790.5	789.2	790.5	789.8	791.9
12.5°	781.0	779.7	779.7	781.7	781.7
15°	770.2	770.2	768.2	771.6	770.9
17.5°	759.4	759.4	758.1	758.1	759.4
20°	746.6	743.2	744.6	743.9	743.2
22.5°	729.0	727.0	725.6	727.7	728.3
25°	712.1	710.8	708.1	710.8	710.1
27.5°	693.9	692.5	691.9	690.5	691.9
30°	673.6	672.3	671.6	670.2	670.2
32.5°	653.4	650.6	647.3	650.6	650.0
35°	629.0	629.0	626.3	627.0	629.0
37.5°	607.4	606.1	604.7	602.7	603.4
40°	583.1	581.1	580.4	579.0	576.3
42.5°	554.7	554.7	552.0	552.7	552.0
45°	529.0	528.4	525.7	525.7	525.7
47.5°	502.0	501.3	499.3	498.0	499.3
50°	474.3	471.6	471.6	469.6	468.9
52.5°	445.3	443.2	440.5	441.2	439.8
55°	414.2	413.5	411.5	410.8	410.8
57.5°	383.1	383.8	382.4	379.7	380.4
60°	352.7	352.0	350.7	349.3	349.3
62.5°	321.6	321.6	318.9	318.9	316.2
65°	290.5	290.5	287.2	288.5	285.8
67.5°	259.4	258.8	256.7	256.1	256.7
70°	225.7	226.3	225.0	225.0	225.7
72.5°	195.3	194.6	193.9	193.9	195.3
75°	164.9	164.2	162.8	162.8	164.2
77.5°	137.2	133.8	133.1	134.5	132.4
80°	109.5	104.7	104.0	103.4	103.4
82.5°	77.0	75.0	75.7	75.0	76.3
85°	48.6	48.0	47.3	47.3	48.0
87.5°	23.0	21.6	21.6	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)