

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: P292875

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292875
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-LD5-32-FGW080-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

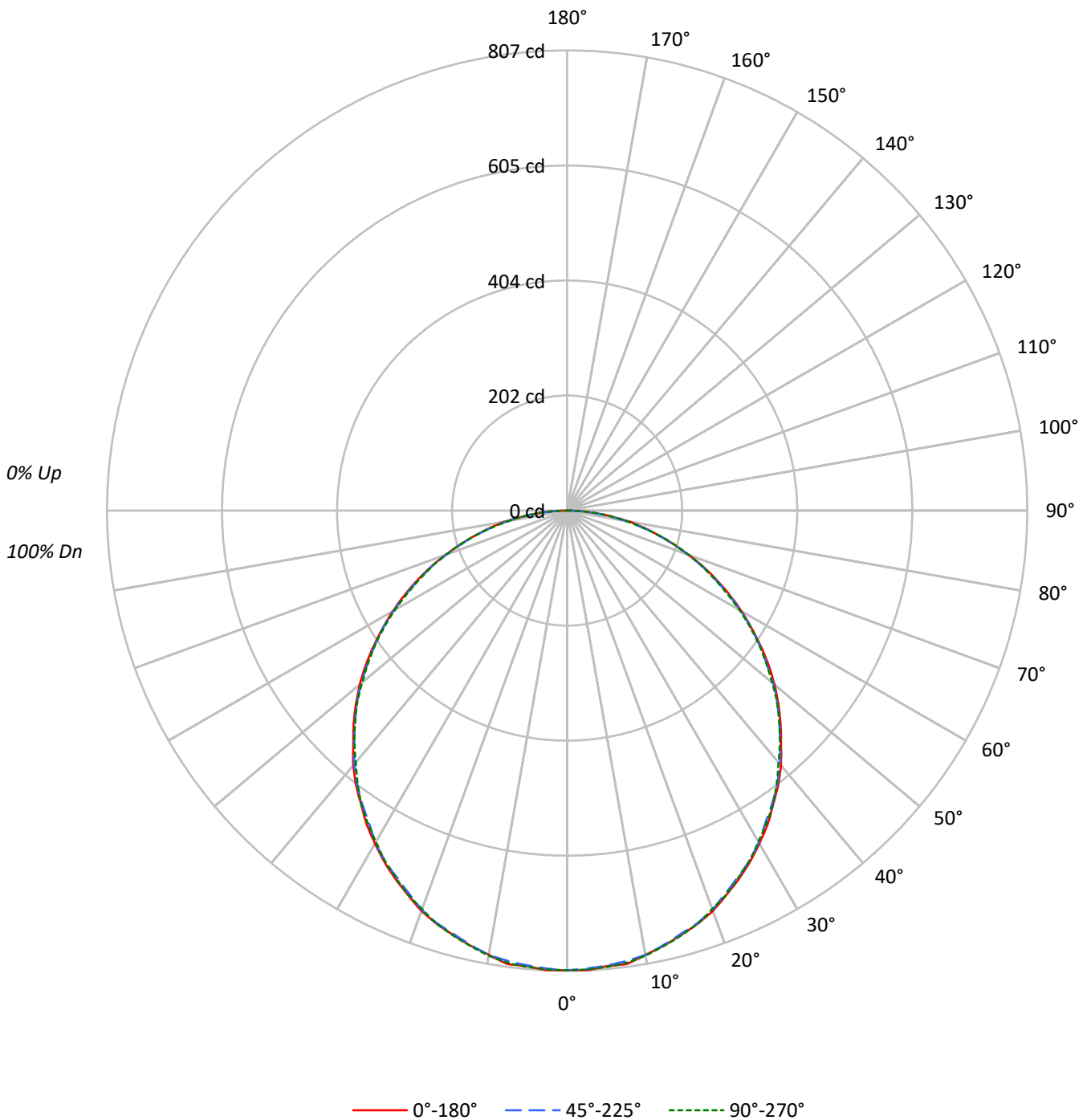
Input Watts (W): 24.645
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2169	2169	2169
5°	2166	2163	2170
10°	2162	2162	2165
15°	2148	2142	2150
20°	2140	2134	2130
25°	2116	2104	2110
30°	2095	2089	2084
35°	2068	2059	2068
40°	2050	2041	2026
45°	2015	2002	2002
50°	1987	1976	1965
55°	1945	1932	1929
60°	1900	1889	1882
65°	1852	1830	1821
70°	1777	1772	1777
75°	1716	1695	1708
80°	1697	1613	1604
85°	1504	1460	1482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.3
10°-20°	217.6	9.4
20°-30°	327.6	14.2
30°-40°	393.2	17.1
40°-50°	406.8	17.7
50°-60°	368.6	16.0
60°-70°	285.8	12.4
70°-80°	173.5	7.5
80°-90°	53.7	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°	621.4	27.0
0°-40°	1014.6	44.1
0°-60°	1790.1	77.7
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	802	802	801	803	803	76
15°	771	771	769	772	772	218
25°	713	711	709	711	711	329
35°	630	630	627	628	630	395
45°	530	529	526	526	526	409
55°	414	414	412	411	411	371
65°	291	291	287	289	286	288
75°	165	164	163	163	164	176
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°	806.1	806.1	806.1	806.1	806.1
2.5°	806.7	803.4	804.0	805.4	805.4
5°	802.0	802.0	800.7	802.7	803.4
7.5°	802.0	798.6	796.6	798.6	800.0
10°	791.2	789.8	791.2	790.5	792.5
12.5°	781.7	780.4	780.4	782.4	782.4
15°	770.9	770.9	768.9	772.3	771.6
17.5°	760.1	760.1	758.7	758.7	760.1
20°	747.2	743.9	745.2	744.5	743.9
22.5°	729.7	727.6	726.3	728.3	729.0
25°	712.8	711.4	708.7	711.4	710.7
27.5°	694.5	693.1	692.5	691.1	692.5
30°	674.2	672.9	672.2	670.8	670.8
32.5°	653.9	651.2	647.8	651.2	650.5
35°	629.6	629.6	626.9	627.5	629.6
37.5°	607.9	606.6	605.2	603.2	603.9
40°	583.6	581.6	580.9	579.5	576.8
42.5°	555.2	555.2	552.5	553.2	552.5
45°	529.5	528.8	526.1	526.1	526.1
47.5°	502.4	501.8	499.7	498.4	499.7
50°	474.7	472.0	472.0	470.0	469.3
52.5°	445.6	443.6	440.9	441.6	440.2
55°	414.5	413.9	411.8	411.2	411.2
57.5°	383.4	384.1	382.7	380.0	380.7
60°	353.0	352.3	351.0	349.6	349.6
62.5°	321.9	321.9	319.2	319.2	316.5
65°	290.8	290.8	287.4	288.8	286.0
67.5°	259.7	259.0	257.0	256.3	257.0
70°	225.9	226.5	225.2	225.2	225.9
72.5°	195.4	194.8	194.1	194.1	195.4
75°	165.0	164.3	163.0	163.0	164.3
77.5°	137.3	133.9	133.2	134.6	132.5
80°	109.5	104.8	104.1	103.5	103.5
82.5°	77.1	75.1	75.7	75.1	76.4
85°	48.7	48.0	47.3	47.3	48.0
87.5°	23.0	21.6	21.6	21.0	21.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)