

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: P292871

Luminaire Tested: **22GR-LD5-28-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292871
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2298.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

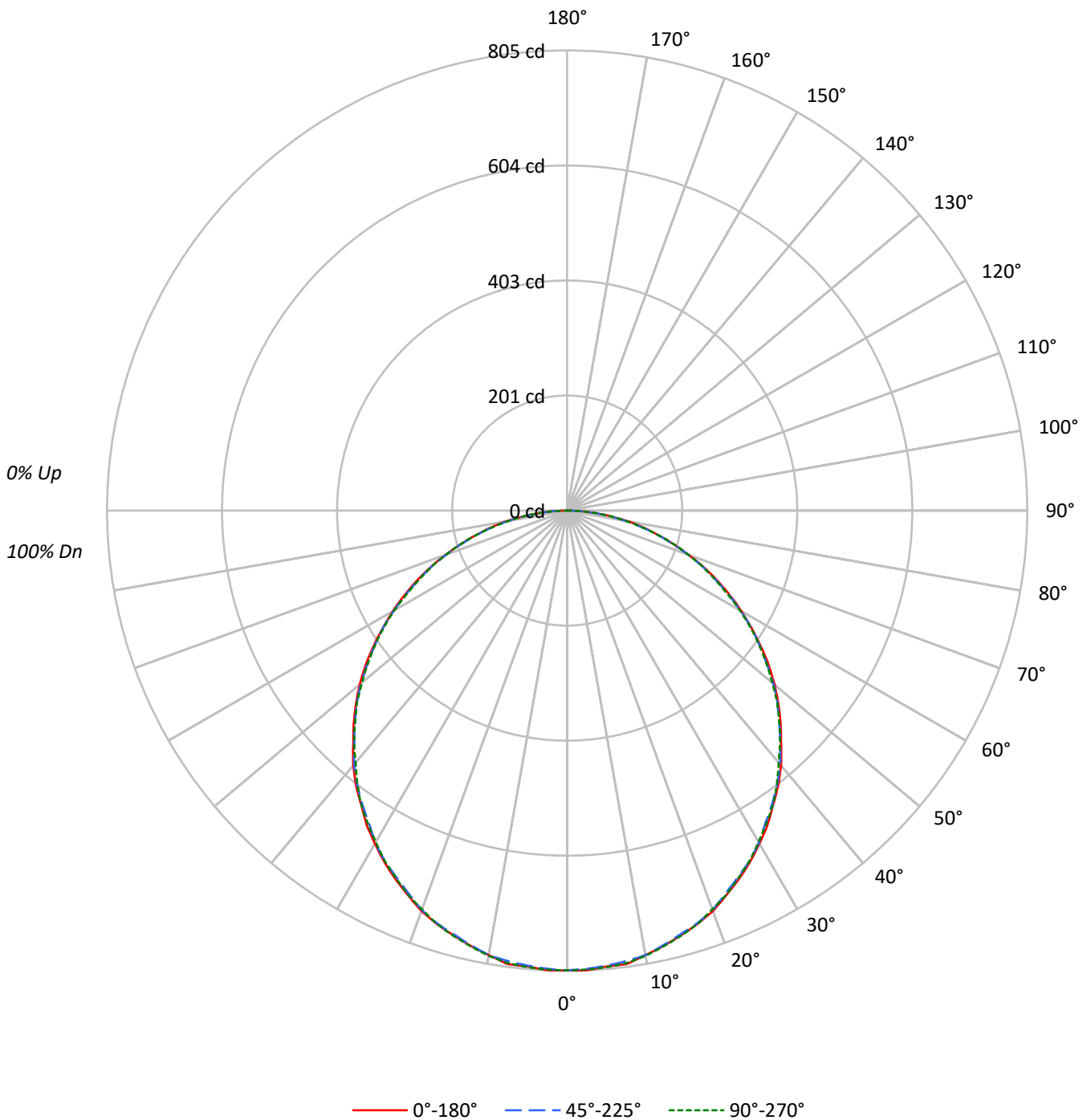
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2164	2164	2164
5°	2162	2158	2165
10°	2157	2157	2161
15°	2143	2137	2145
20°	2135	2129	2125
25°	2112	2100	2106
30°	2090	2084	2080
35°	2064	2055	2064
40°	2046	2036	2022
45°	2011	1998	1998
50°	1983	1972	1961
55°	1940	1928	1925
60°	1896	1885	1878
65°	1847	1826	1817
70°	1773	1768	1773
75°	1711	1691	1705
80°	1694	1610	1599
85°	1501	1457	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	3.3
10°-20°	217.1	9.4
20°-30°	326.9	14.2
30°-40°	392.3	17.1
40°-50°	406.0	17.7
50°-60°	367.8	16.0
60°-70°	285.1	12.4
70°-80°	173.1	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°	620.1	27.0
0°-40°	1012.4	44.1
0°-60°	1786.2	77.7
0°-90°	2298.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2298.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	800	800	799	801	802	76
15°	769	769	767	771	770	217
25°	711	710	707	710	709	328
35°	628	628	626	626	628	394
45°	528	528	525	525	525	408
55°	414	413	411	410	410	370
65°	290	290	287	288	285	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°	804.3	804.3	804.3	804.3	804.3
2.5°	805.0	801.6	802.3	803.6	803.6
5°	800.3	800.3	798.9	800.9	801.6
7.5°	800.3	796.9	794.9	796.9	798.2
10°	789.5	788.1	789.5	788.8	790.8
12.5°	780.0	778.7	778.7	780.7	780.7
15°	769.2	769.2	767.2	770.6	769.9
17.5°	758.4	758.4	757.1	757.1	758.4
20°	745.6	742.2	743.6	742.9	742.2
22.5°	728.1	726.0	724.7	726.7	727.4
25°	711.2	709.9	707.2	709.9	709.2
27.5°	693.0	691.6	691.0	689.6	691.0
30°	672.7	671.4	670.7	669.4	669.4
32.5°	652.5	649.8	646.4	649.8	649.1
35°	628.2	628.2	625.5	626.2	628.2
37.5°	606.6	605.3	603.9	601.9	602.6
40°	582.3	580.3	579.6	578.3	575.6
42.5°	554.0	554.0	551.3	552.0	551.3
45°	528.3	527.7	525.0	525.0	525.0
47.5°	501.4	500.7	498.7	497.3	498.7
50°	473.7	471.0	471.0	469.0	468.3
52.5°	444.7	442.6	439.9	440.6	439.3
55°	413.6	413.0	410.9	410.3	410.3
57.5°	382.6	383.3	381.9	379.2	379.9
60°	352.2	351.6	350.2	348.9	348.9
62.5°	321.2	321.2	318.5	318.5	315.8
65°	290.1	290.1	286.8	288.1	285.4
67.5°	259.1	258.4	256.4	255.7	256.4
70°	225.4	226.0	224.7	224.7	225.4
72.5°	195.0	194.3	193.7	193.7	195.0
75°	164.6	164.0	162.6	162.6	164.0
77.5°	137.0	133.6	132.9	134.3	132.3
80°	109.3	104.6	103.9	103.2	103.2
82.5°	76.9	74.9	75.6	74.9	76.2
85°	48.6	47.9	47.2	47.2	47.9
87.5°	22.9	21.6	21.6	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)