

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: P292873

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292873
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-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2109.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

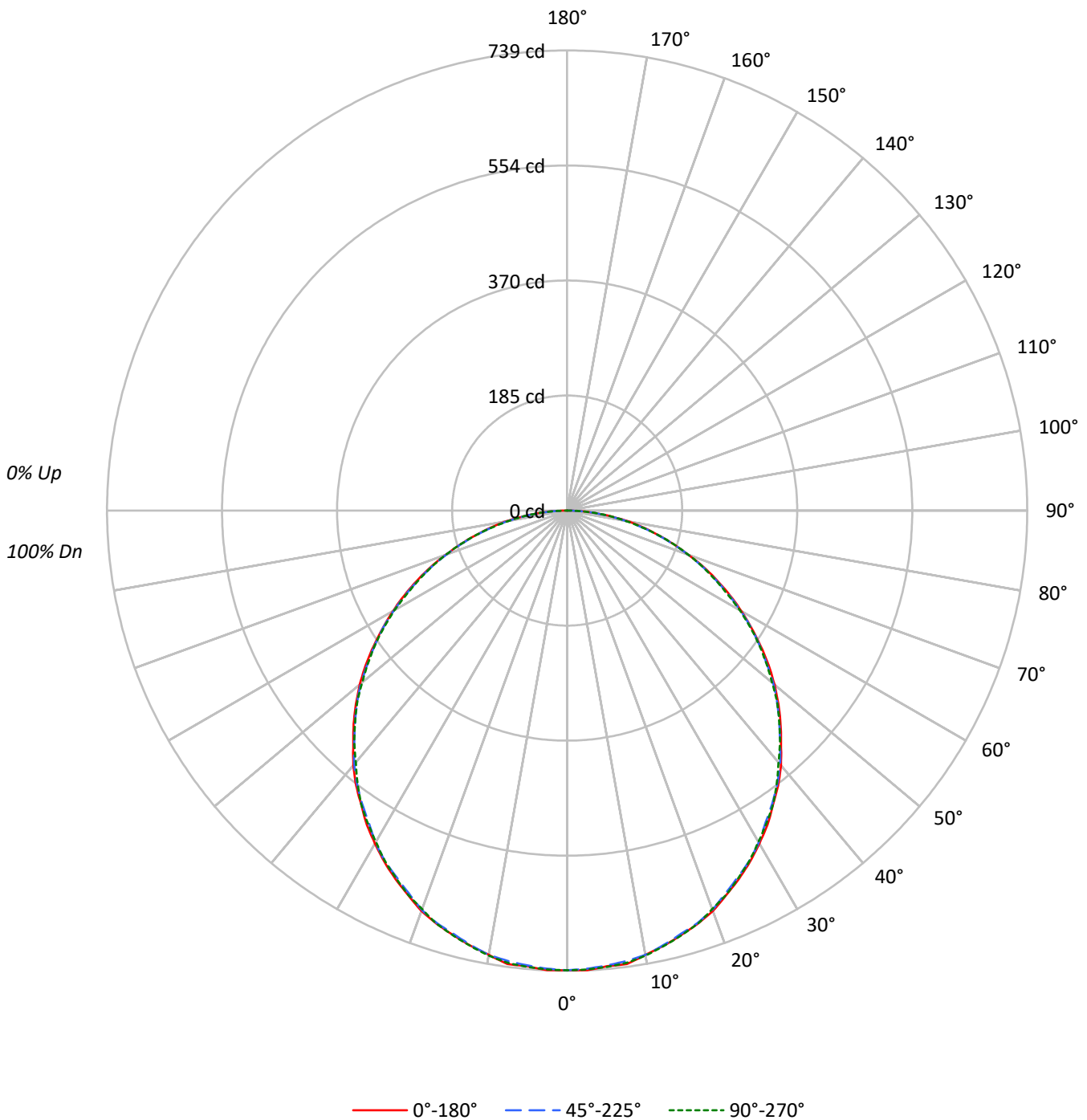
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1986	1986	1986
5°	1984	1981	1987
10°	1980	1980	1983
15°	1967	1962	1969
20°	1960	1954	1951
25°	1938	1927	1933
30°	1918	1913	1909
35°	1894	1886	1894
40°	1877	1869	1855
45°	1845	1834	1834
50°	1820	1810	1799
55°	1781	1769	1766
60°	1740	1730	1723
65°	1696	1676	1668
70°	1627	1622	1627
75°	1571	1551	1565
80°	1554	1478	1468
85°	1377	1337	1359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.3
10°-20°	199.2	9.4
20°-30°	300.0	14.2
30°-40°	360.0	17.1
40°-50°	372.6	17.7
50°-60°	337.6	16.0
60°-70°	261.7	12.4
70°-80°	158.8	7.5
80°-90°	49.2	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°	569.1	27.0
0°-40°	929.2	44.1
0°-60°	1639.3	77.7
0°-90°	2109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	738	738	738	738	738	
5°	734	734	733	735	736	70
15°	706	706	704	707	707	199
25°	653	652	649	652	651	301
35°	576	576	574	575	576	361
45°	485	484	482	482	482	374
55°	380	379	377	376	376	339
65°	266	266	263	264	262	263
75°	151	150	149	149	150	161
85°	45	44	43	43	44	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	738.2	738.2	738.2	738.2	738.2
2.5°	738.8	735.7	736.3	737.6	737.6
5°	734.5	734.5	733.2	735.1	735.7
7.5°	734.5	731.4	729.5	731.4	732.6
10°	724.5	723.3	724.5	723.9	725.8
12.5°	715.9	714.6	714.6	716.5	716.5
15°	706.0	706.0	704.1	707.2	706.6
17.5°	696.1	696.1	694.8	694.8	696.1
20°	684.3	681.2	682.4	681.8	681.2
22.5°	668.2	666.3	665.1	667.0	667.6
25°	652.7	651.5	649.0	651.5	650.9
27.5°	636.0	634.8	634.1	632.9	634.1
30°	617.4	616.2	615.6	614.3	614.3
32.5°	598.8	596.4	593.3	596.4	595.7
35°	576.5	576.5	574.1	574.7	576.5
37.5°	556.7	555.5	554.2	552.4	553.0
40°	534.4	532.6	532.0	530.7	528.2
42.5°	508.4	508.4	505.9	506.6	505.9
45°	484.9	484.3	481.8	481.8	481.8
47.5°	460.1	459.5	457.6	456.4	457.6
50°	434.7	432.3	432.3	430.4	429.8
52.5°	408.1	406.2	403.8	404.4	403.1
55°	379.6	379.0	377.1	376.5	376.5
57.5°	351.1	351.7	350.5	348.0	348.6
60°	323.3	322.6	321.4	320.2	320.2
62.5°	294.8	294.8	292.3	292.3	289.8
65°	266.3	266.3	263.2	264.4	262.0
67.5°	237.8	237.2	235.3	234.7	235.3
70°	206.8	207.5	206.2	206.2	206.8
72.5°	179.0	178.3	177.7	177.7	179.0
75°	151.1	150.5	149.2	149.2	150.5
77.5°	125.7	122.6	122.0	123.2	121.4
80°	100.3	96.0	95.4	94.7	94.7
82.5°	70.6	68.7	69.4	68.7	70.0
85°	44.6	44.0	43.3	43.3	44.0
87.5°	21.1	19.8	19.8	19.2	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)