

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: P292899

Luminaire Tested: **22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292899
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-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3233.0 lumens
Efficiency: N/A
Efficacy: 95.5 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

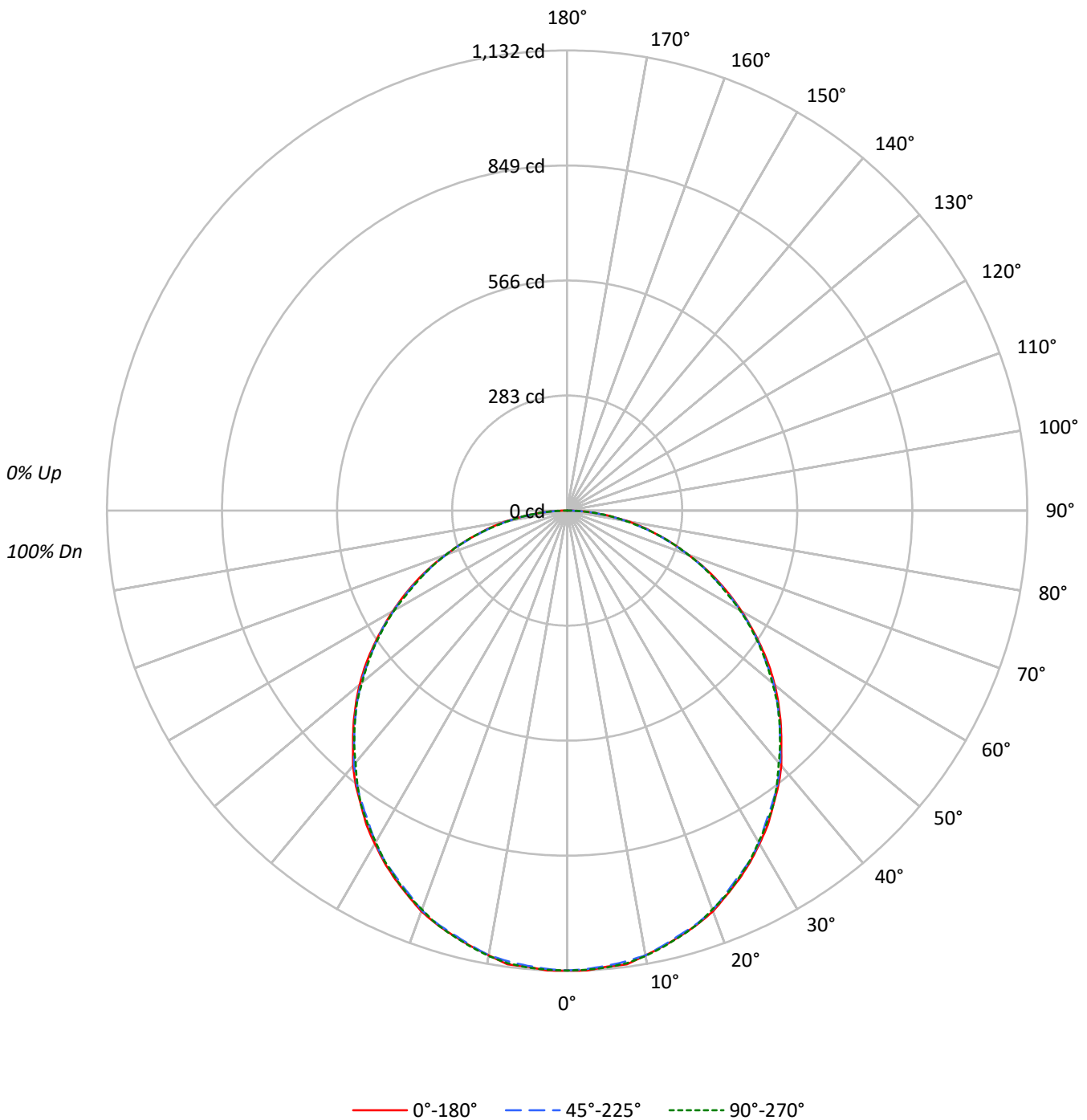
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292899

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292899

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K

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°	3045	3045	3045
5°	3041	3036	3046
10°	3035	3035	3040
15°	3015	3007	3018
20°	3004	2996	2990
25°	2971	2954	2962
30°	2941	2932	2926
35°	2903	2891	2903
40°	2878	2865	2845
45°	2829	2811	2811
50°	2790	2774	2758
55°	2730	2712	2708
60°	2667	2652	2641
65°	2599	2569	2557
70°	2495	2487	2495
75°	2408	2379	2399
80°	2383	2266	2250
85°	2112	2053	2081



TEST NUMBER: P292899

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	3.3
10°-20°	305.4	9.4
20°-30°	459.9	14.2
30°-40°	551.9	17.1
40°-50°	571.1	17.7
50°-60°	517.5	16.0
60°-70°	401.2	12.4
70°-80°	243.5	7.5
80°-90°	75.4	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°	872.4	27.0
0°-40°	1424.3	44.1
0°-60°	2513.0	77.7
0°-90°	3233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1126	1126	1124	1127	1128	107
15°	1082	1082	1079	1084	1083	306
25°	1001	999	995	999	998	461
35°	884	884	880	881	884	554
45°	743	742	739	739	739	574
55°	582	581	578	577	577	520
65°	408	408	404	405	402	404
75°	232	231	229	229	231	246
85°	68	67	66	66	67	78
90°	0	0	0	0	0	



TEST NUMBER: P292899

CATALOG NUMBER: 22GR-LD5-40-FGW080-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1131.6	1131.6	1131.6	1131.6	1131.6
2.5°	1132.5	1127.8	1128.7	1130.6	1130.6
5°	1125.9	1125.9	1124.0	1126.8	1127.8
7.5°	1125.9	1121.1	1118.3	1121.1	1123.0
10°	1110.7	1108.8	1110.7	1109.7	1112.6
12.5°	1097.4	1095.5	1095.5	1098.4	1098.4
15°	1082.2	1082.2	1079.4	1084.1	1083.2
17.5°	1067.0	1067.0	1065.1	1065.1	1067.0
20°	1049.0	1044.2	1046.1	1045.2	1044.2
22.5°	1024.3	1021.5	1019.6	1022.4	1023.4
25°	1000.6	998.7	994.9	998.7	997.7
27.5°	974.9	973.0	972.1	970.2	972.1
30°	946.5	944.6	943.6	941.7	941.7
32.5°	918.0	914.2	909.4	914.2	913.2
35°	883.8	883.8	880.0	881.0	883.8
37.5°	853.4	851.5	849.6	846.8	847.7
40°	819.3	816.4	815.5	813.6	809.8
42.5°	779.4	779.4	775.6	776.5	775.6
45°	743.3	742.4	738.6	738.6	738.6
47.5°	705.3	704.4	701.5	699.6	701.5
50°	666.4	662.6	662.6	659.8	658.8
52.5°	625.6	622.7	619.0	619.9	618.0
55°	581.9	581.0	578.1	577.2	577.2
57.5°	538.3	539.2	537.3	533.5	534.5
60°	495.5	494.6	492.7	490.8	490.8
62.5°	451.9	451.9	448.1	448.1	444.3
65°	408.2	408.2	403.5	405.4	401.6
67.5°	364.5	363.6	360.7	359.8	360.7
70°	317.1	318.0	316.1	316.1	317.1
72.5°	274.4	273.4	272.5	272.5	274.4
75°	231.6	230.7	228.8	228.8	230.7
77.5°	192.7	188.0	187.0	188.9	186.1
80°	153.8	147.1	146.2	145.2	145.2
82.5°	108.2	105.4	106.3	105.4	107.3
85°	68.4	67.4	66.5	66.5	67.4
87.5°	32.3	30.4	30.4	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)