

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: P291775

Luminaire Tested: **22GR-LD5-20-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-20-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2167.0 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

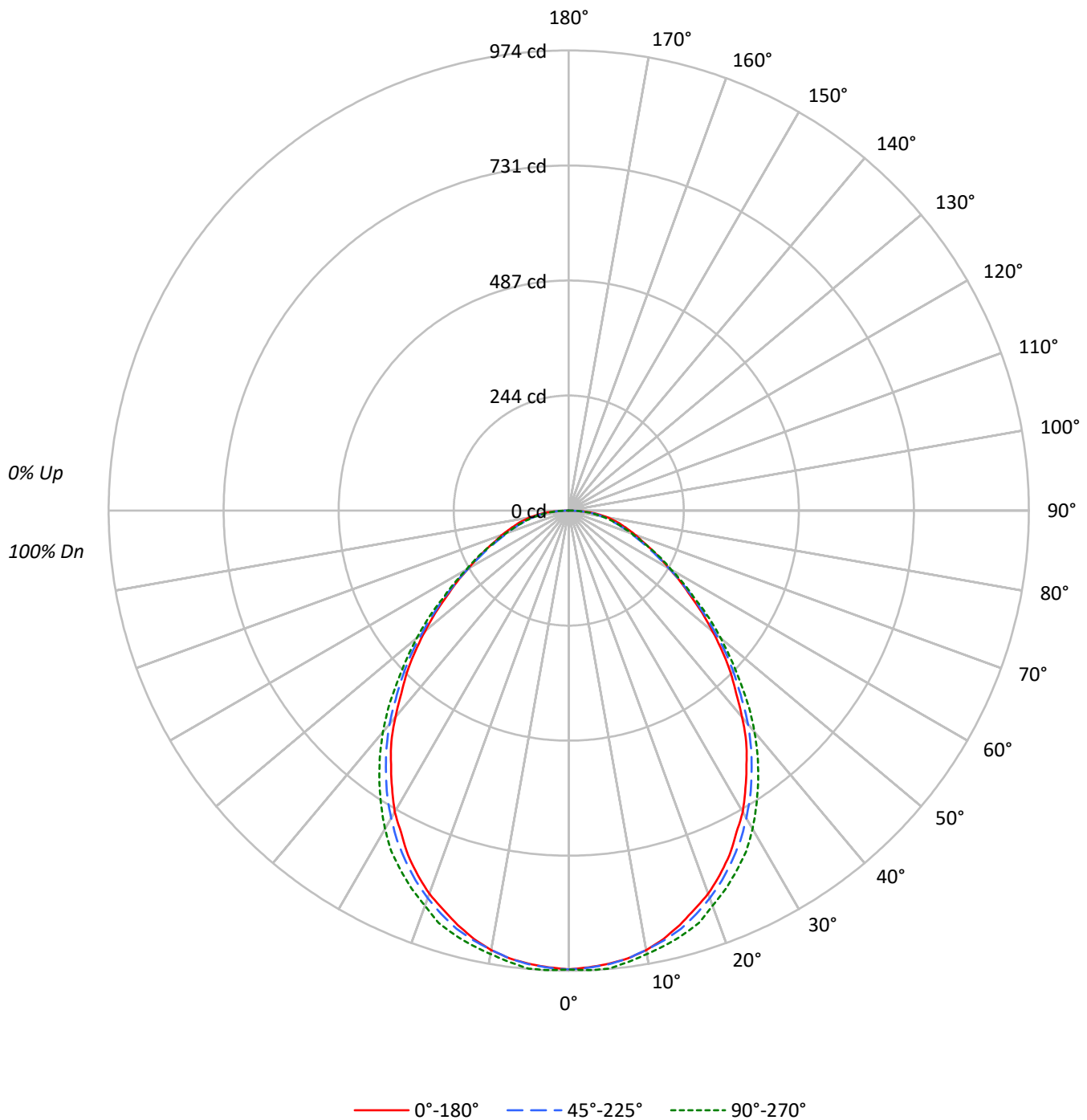
Input Watts (W): 15.903
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	87	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	63	58		68	62	57		66
5	79	67	58	52	77	66	58	52	63	56	51		62	55	51		60
6	73	60	52	46	71	59	51	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	46	41	53	46	41		51	45	40		50
8	63	51	42	37	62	50	42	37	49	42	37		47	41	36		46
9	59	47	39	33	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	30	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2613	2613	2613
5°	2602	2604	2629
10°	2581	2580	2605
15°	2529	2554	2592
20°	2472	2500	2548
25°	2390	2428	2496
30°	2289	2335	2417
35°	2155	2217	2296
40°	2005	2074	2149
45°	1841	1894	1953
50°	1661	1702	1757
55°	1474	1508	1534
60°	1321	1323	1350
65°	1217	1176	1217
70°	1175	1089	1120
75°	1196	1066	1087
80°	1288	1119	1119
85°	1430	1183	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	4.2
10°-20°	258.4	11.9
20°-30°	377.1	17.4
30°-40°	422.2	19.5
40°-50°	384.2	17.7
50°-60°	289.2	13.3
60°-70°	188.7	8.7
70°-80°	113.2	5.2
80°-90°	42.4	2.0
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°	727.1	33.6
0°-40°	1149.2	53.0
0°-60°	1822.6	84.1
0°-90°	2167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	963	962	964	968	973	91
15°	908	909	917	924	930	256
25°	805	807	818	833	841	370
35°	656	662	675	691	699	410
45°	484	489	498	508	513	372
55°	314	318	322	326	327	284
65°	191	189	185	188	191	191
75°	115	111	102	103	104	122
85°	46	45	38	36	38	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.1	971.1	971.1	971.1	971.1
2.5°	967.6	967.1	968.6	971.1	973.6
5°	963.1	961.6	964.1	967.6	973.1
7.5°	956.1	956.1	956.1	962.6	963.6
10°	944.7	945.7	944.2	950.7	953.2
12.5°	928.3	928.8	931.8	938.2	942.7
15°	907.9	908.9	916.8	924.3	930.3
17.5°	885.0	888.5	895.9	907.9	915.3
20°	863.1	867.1	873.0	886.0	889.9
22.5°	835.2	839.7	847.1	858.6	867.1
25°	804.8	807.3	817.8	832.7	840.7
27.5°	768.5	774.0	786.9	802.3	813.3
30°	736.6	739.6	751.6	769.5	778.0
32.5°	696.3	705.3	715.2	731.2	739.1
35°	656.0	662.0	674.9	690.9	698.8
37.5°	617.2	620.7	633.6	647.1	657.0
40°	570.9	577.4	590.3	604.7	611.7
42.5°	524.6	534.1	542.5	557.0	564.4
45°	483.8	488.8	497.7	508.2	513.2
47.5°	441.0	443.5	453.9	460.4	465.9
50°	396.7	399.7	406.6	413.1	419.6
52.5°	355.9	358.4	362.8	368.8	375.3
55°	314.1	318.5	321.5	326.0	327.0
57.5°	280.2	279.7	281.7	285.2	288.7
60°	245.4	246.4	245.9	249.4	250.9
62.5°	216.5	216.0	213.0	218.0	222.0
65°	191.1	189.1	184.7	187.6	191.1
67.5°	167.7	166.7	159.3	161.8	164.8
70°	149.3	145.8	138.4	139.9	142.4
72.5°	131.4	127.4	120.0	120.5	121.9
75°	115.0	111.0	102.5	103.0	104.5
77.5°	99.5	94.6	87.1	86.1	87.1
80°	83.1	78.6	72.2	69.2	72.2
82.5°	66.2	63.7	56.2	53.3	54.3
85°	46.3	44.8	38.3	36.3	37.8
87.5°	21.4	22.9	19.4	17.9	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)